FIGURE 1

Amino acid sequence for full length human wild type EPHA2 [SEQ. ID No. 1] (Residues 596-900 are underlined)

	MELQAARACFALLWGCALAAAAAAQGKEVVLLDFAAAGGELGWLTHPYGK	50
	GWDLMQNIMNDMPIYMYSVCNVMSGDQDNWLRTNWVYRGEAERNNFELNF	100
	TVRDCNSFPGGASSCKETFNLYYAESDLDYGTNFQKRLFTKIDTIAPDEI	150
	TVSSDFEARHVKLNVEERSVGPLTRKGFYLAFQDIGACVALLSVRVYYKK	200
	CPELLQGLAHFPETIAGSDAPSLATVAGTCVDHAVVPPGGEEPRMHCAVD	250
	GEWLVPIGQCLCQAGYEKVEDACQACSPGFFKFEASESPCLECPEHTLPS	300
	PEGATSCECEEGFFRAPQDPASMPCTRPPSAPHYLTAVGMGAKVELRWTP	350
	PQDSGGREDIVYSVTCEQCWPESGECGPCEASVRYSEPPHGLTRTSVTVS	400
	DLEPHMNYTFTVEARNGVSGLVTSRSFRTASVSINQTEPPKVRLEGRSTT	450
	SLSVSWSIPPPQQSRVWKYEVTYRKKGDSNSYNVRRTEGFSVTLDDLAPD	500
	TTYLVQVQALTQEGQGAGSKVHEFQTLSPEGSGNLAVIGGVAVGVVLLLV	550
	LAGVGFFIHRRRKNQRARQSPEDVYFSKSEQLKPLKTYVDPHTYEDPNQA	600
	VLKFTTEIHPSCVTRQKVIGAGEFGEVYKGMLKTSSGKKEVPVAIKTLKA	650
:	GYTEKQRVDFLGEAGIMGQFSHHNIIRLEGVISKYKPMMIITEYMENGAL	700
	DKFLREKDGEFSVLQLVGMLRGIAAGMKYLANMNYVHRDLAARNILVNSN	750
	LVCKVSDFGLSRVLEDDPEATYTTSGGKIPIRWTAPEAISYRKFTSASDV	800
	WSFGIVMWEVMTYGERPYWELSNHEVMKAINDGFRLPTPMDCPSAIYQLM	850
	MQCWQQERARRPKFADIVSILDKLIRAPDSLKTLADFDPRVSIRLPSTSG	900
	SEGVPFRTVSEWLESIKMQQYTEHFMAAGYTAIEKVVQMTNDDIKRIGVR	950
	LPGHQKRIAYSLLGLKDQVNTVGIPI	976

Human cDNA sequence encoding residues 596-900 of EPHA2 [SEQ. ID No. 2]

GACCCCAACCAGGCTGTGTTGAAGTTCACTACCGAGATCCATCC		50
TGTCACTCGGCAGAAGGTGATCGGAGCAGGAGAGTTTGGGGAGGTGTACA		100
AGGGCATGCTGAAGACATCCTCGGGGAAGAAGGAGGTGCCGGTGGCCATC		150
AAGACGCTGAAAGCCGGCTACACAGAGAAGCAGCGAGTGGACTTCCTCGG		200
CGAGGCCGCCATCATGGGCCAGTTCAGCCACCACAACATCATCCGCCTAG		250
AGGGCGTCATCTCCAAATACAAGCCCATGATGATCATCACTGAGTACATG		300
GAGAATGGGGCCCTGGACAAGTTCCTTCGGGAGAAGGATGGCGAGTTCAG	•	350
CGTGCTGCAGCTGGGGCATGCTGCGGGGCATCGCAGCTGGCATGAAGT		400
ACCTGGCCAACATGAACTATGTGCACCGTGACCTGGCTGCCCGCAACATC	4 - 1	450
CTCGTCAACAGCAACCTGGTCTGCAAGGTGTCTGACTTTGGCCTGTCCCG		500
CGTGCTGGAGGACGACCCCGAGGCCACCTACACCACCAGTGGCGGCAAGA	٠.	550
TCCCCATCCGCTGGACCGCCCCGGAGGCCATTTCCTACCGGAAGTTCACC		600
TCTGCCAGCGACGTGTGGAGCTTTGGCATTGTCATGTGGGAGGTGATGAC		650
CTATGGCGAGCGGCCCTACTGGGAGTTGTCCAACCACGAGGTGATGAAAG		700
CCATCAATGATGGCTTCCGGCTCCCCACACCCATGGACTGCCCCTCCGCC		750
ATCTACCAGCTCATGATGCAGTGCTGGCAGCAGGAGCGTGCCCGCCC		800
CAAGTTCGCTGACATCGTCAGCATCCTGGACAAGCTCATTCGTGCCCCTG		850
ACTCCCTCAAGACCCTGGCTGACTTTGACCCCCGCGTGTCTATCCGGCTC		900
CCCAGCACGAGCGGC		915

Amino acid sequence for residues 596-900 of EPHA2 with a cleavable (rTev) N-terminal 6x-histidine tag [SEQ. ID No. 3] (6x-histidine tag and cleavage site are underlined)

MSYYHHHHHHDYDIPTTENLYFQGAMGSDPNQAVLKFTTEIHPSCVTRQK	50
VIGAGEFGEVYKGMLKTSSGKKEVPVAIKTLKAGYTEKQRVDFLGEAGIM	100
GQFSHHNIIRLEGVISKYKPMMIITEYMENGALDKFLREKDGEFSVLQLV	150
GMLRGIAAGMKYLANMNYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDD	200
PEATYTTSGGKIPIRWTAPEAISYRKFTSASDVWSFGIVMWEVMTYGERP	250
YWELSNHEVMKAINDGFRLPTPMDCPSAIYQLMMQCWQQERARRPKFADI	300
VSILDKLIRAPDSLKTLADFDPRVSIRLPSTSG	333

FIGURE 2

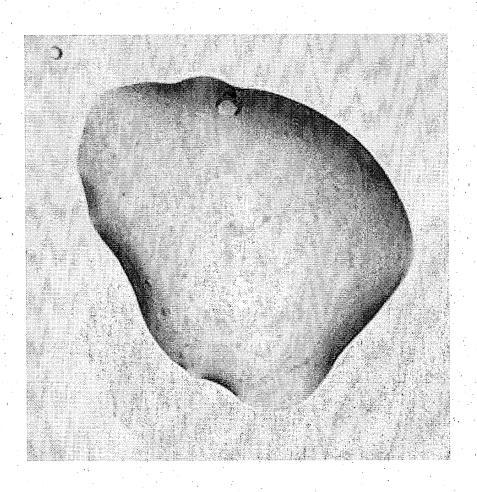


FIGURE 3A

LEGEND

Column headings from left to right are (A)'Atom Number', (B)'Atom Type', (C)'Amino Acid', (D)'Chain Identifier', (E)'Amino Acid Number', (F)'X Coordinate', (G)'Y Coordinate', (H)'Z Coordinate', (I)'Occupancy' (OCC) and (J)'B factor'.

	A	B :	С	D	E		F	G	Н	Í	J	
r	1	N	ALA	Α	605		47.239	45.529	67.448	1.00	51.83	
	2	CA	ALA				46.929	45.860	66.049	1.00		
	3	СВ	ALA	Α	605		45.751	44.876	65.490	1.00	51.40	
	4	Ç	ALA	Α	605		46.433	47.259	66.307	1.00	51.78	
	5	0	ALA		*		46.252	47.630		1.00		
	6	N	THR	Ą	606		46.218	48.048	65.302	1.00	51.19	
	7 .	CA	THR	Α	606		45.719	49.337	65.564	1.00	49.98	
٠.	8	CB	THR	Α	606		46.128	50.120	64.454	1.00	48.98	
•	9	OG1	THR	A	606		47.553	50.041	64.401	1.00	50.88	
	10.	CG2	THR	Α	606		45.766	51.541	64.651	1.00	48.25	
	11	C	THR	Α	606		44.201	49.397	65.650	1.00	50.57	
	12	O ,	THR	Α	606		43.487	48.868	64.787	1.00	51.60	
	13	N	GLU	Α	607		43.680	50.086	66.646	1.00	49.68	
	14	CA	GLU	Α	607	-	42.264	50.182	66.717	1.00	47.97	
	15	CB	GLŲ	Α	607		41.796	50.123	68.130	1.00	47.41	
	16	CG	GLU	Ά	607		40.323	50.414	68.279	1.00	50.07	
	17	$CD_{:}$	GLU	Α	607		39.394	49.230	68.074	1.00	39.82	
	18	OE1	GLU	À	607		39.796	48.072	68.195	1.00	38.52	
	19	OE2	GLU	Α	607	-	38.260	49,515	67.856	1.00	41.61	
	20	C	GLU	Α	607		41.841	51.347	65.971	1.00	48.16	
	21	O	GLU	Ą	607		42.392	52.398	66.162	1.00	48.74	
	22	N	ILE	A	608		40.955	51.146	64.963	1.00	50.14	
	23 ⁻	CA	ILE	Α	608		40.531	52.309	64.228	1.00	49.42	
	24	СŖ	ILE,	Α	608		41.128	52.517	62.742	1.00		
	25	CG1	ILE	Α	608		40.066	52.886	61.752	1.00	49.45	
	2.6	CD1	ILE	Α	608		39.259	51.726	61.615	1.00	60.72	
	27	CG2	ILE	Α	608		42.168	51.494	62.300	1.00	47.67	
٠	28	Ċ.	ILE	Ą	608		39.135	52.787	64.481	1.00	51.43	
	29	0	IĻE	A	608		38.254	52.049	64.879	1.00	51.22	
	30	N	HIS	Α	609		38.983	54.090	64.361	1.00	53.40	
	31	CA	HIS	Α	609		37.727	54.745	64.674	1.00	55.30	
	32	CB	HIS	Α	609		37.938	56.203	65.196		57.26	
	33	CG	HIS	Α	609		36.715	56.776	65.835	1.00	60.02	
	34	ND1	HIS	A	609		36.486	56.686	67.186	1.00	62.57	
	35	CE1	HIS	Ą	609		35.313	57.221	67.471	1.00	62.48	
	36	NE2	HIS	Α	609		34.764	57.635	66.348	1.00		
	37	CD5	HIS	Ą	609		35.606	57.345	65.301	1.00	62.09	
	38	C	HIS		609		36.701	54.718	63.557	1.00		
	39	0			609		36.943	55.109	62.474		55.03	
	40	N	PRO		610		35.517	54.263	63.854	1.00		
	41	CA.	PRO		610			54.113	62.805		53.20	
	. 42	CB	PRO		610		33.246	53.864	63.591	1.00		
	43	CG;	PŖO	Α	610		33.753	53.087	64.713	1.00	50.94	
					*							

A	В	C	D	E		~	F	G	Н	I	J
4.4	CD	PRO	Α	610			35.069	53.682	65.133	1.00	52.08
45	Ċ			610			34.421	55.273	61.903		52.69
46	0			610	,	٠, ٠	33.935	55.146	60.793		55.21
47	N	SER	A	611			34.789	56.418	62.391		52.17
48	CA	SER	Α	611			34.546	57.584	61.639		52.33
49	CB	SER	À	611			34.694	58.833	62.562	1.00	54.93
50	OG	SER	Α	611			35.822	58.723	63.443	1.00	49.81
51	Ç	SER	A	611			35.579	57.611	60.552	1.00	52.77
52	0	SER	Α	611	•		35.394	58.256	59.545	1.00	54.01
53	N			612			36.679	56.915	60.701	1.00	49.87
54	CA			612			37.633	57.083	59.642		51.06
55	CB	CYS	Α	612			39.044		60.169	1.00	50.65
56	SG	ÇYS	Α	612		٠.	39.193	57.805	61.702	1.00	55.75
57	С	CYS	Α	612		٠.	37.445		58.426		
58	0			612		5	38.215	56,286	57.479	1.00	
59	N			613			36.470	55.349	58.497		49.20
60	CA,			613	٠		36.329	54.361	57.471		48.42
61	СВ			613	÷		36.130	52.976	58.087		49.58
62				613			35.493	52.026	57.030		46.32
63	ÇG2	VAL					37.477	52.423	58.651		46.61
64	Ċ			613		٠.	35.039	54.652	56.779		47.49
65	0			613			34.080	55.078	57.401		46.54
66	N			614			34.976	54.426	55.496		46.87
67	CA			614			33.674	54.449	54.961		47.76
68	СВ			614			33.230	55.839	54.547		48.10
69				614			32.501	55.759	53.312		53.74
70	CG2			614			34.430	56.804	54.383		48.56
71	C			614			33.479	53.362	53.956		47.36
72	0.			614		,	34.145	53.317	52.971	1.00	
73	N			615			32.519	52.496	54.192		46.37
74				615			32.356	51.360			44.80
7.5	CB			615			31.323		53.993		43.89
76	ÇĢ	-, -		615			31.817	49.366			44.82
77	CD			615		, .	30.699	48.434.			.45.58
78	NE			615			29.827	49.226			49.04
79	CZ			615			29.151	48.769	57.151		51.81
80	NH1			615			29.164	47.437			50.76
81	NH2			615			28.473 31.694	•	57.883		51.85
82	C.			615				51.886	52.150		45.54
83	O			615	,		30.737	52.603	52.357		47.25
84	N			616			32.035	51.399	50.944		45.88
85	CA			616 616			31.366	51.824	49.681		46.97
86 87	CB			616			32.323 33.258	52,657 53.608	48.734	1.00	47.24 49.82
	CG						34.200	and the second second	49.475		
88 89	CD OE1			616			35.203	54.437 53.909	48.588 48.073		55.54
90	NE2			616		•	33.889	55.770			56.72 56.51
91	·C			616 616	٠		30.597	50.752	48.428 48.848	1.00	
92	Q.			616			29.448	50.732	48.361		48.68
93	N Ö			617			31.167	49.598	48.501		44.77
برو 94	CA			617			30.497	48.628	47.857		44.77
95	CB			617			30.835	48.787			44.70
ر ر	رب		- 1	ψ± /			. 30.022	10.707	10.001	1.00	11.70

A	В	C	D	Е			F	G	Н	I ·	J
96	CG	LYŞ	Α	617			32.399	48.959	45.944	1.00	48.09
97	ÇD	LYS	Α	617			32.768	48.759	44.391	1.00	58.41
98	CE	LYS	Α	617			34.285	49.300	44.085	1.00	60.72
99	NZ	LYS	Α	617		•	35.073	48.944	42.813	1.00	59.09
100	C	LYS	Α	617			31.019	47.331	48.370	1.00	43.38
101	Q ·	LYS	Α	617			32.139	47.297	48.834	1.00	42.92
102	N	VAL	Α	618			30.126	46.333	48.379	1.00	42.86
103	CA	VAL	Α	618		£1	30.376	44.945	48.657	1.00	41.23
104	CB			618			29.070	44.146	48.522	1.00	39.95
105	CG1			618			29.426	42.622	48.582	1.00	40.13
106	ÇĢ2	VAL	Α	618			28.147	44.503	49.610		42.60
107	С			618			31.203	44.381		1.00	40.46
108	0	* .		618	•	٠.	30.854	44.667	46.392		42.70
109	N	ILE					32.237	43.567	47.809		37.69
110	CA			619			33.059	43.022	46.731		33.98
111	CB			619	•		34.521	43.786	46.495		36.65
112	CG1			619			35.584	43.320	47.540		31.94
113	CD1			619			36.383	44.380	48.493		29.73
114	CG2			619	.:		34.380	45.336	46.302		31.41
115	C			619			33.357	41.588	46.995		33.91
116	0			619			34.185	41.024	46.280		35.83
117	N			620	- : "		32.752	40.970	47.989		32.82
118	ÇA			620			33.039		48.271		32.89
119	C			620			32.373	39.194			32.89
120	. 0	-		620			31.714	39.949	50.177		30.70
121	N			621			32.511	37.954			34.15
122	CA			621			31.818	37.384	51.019		35.78
123	CB			621			30.777		50.533	1.00	35.84
124 125	C			621			32.833	36.551			37.56
126	N			621			33.491	35.782	51.007		39.38
127	CA			622 622			33.026	36.691	52.986		38.91
128	CA			622			34.006 33.398	35.848 34.928	53.611		38.65
129	0:			622			32.173	34.920	54.575 54.796	$\frac{1.00}{1.00}$	
130	N	GLU		623	٠,		34.293	34.225	55.272	1.00	36.11
131	CA	GLU		623			33.843	33.363	56.342	1.00	41.01 41.61
132	CB			623			35.046	32.793	57.068		43.27
133	CG			623			34.682	31.885	58.223	1.00	50.78
134	CD .	GLU			-		35.838	31.063	58.780		65.56
135	OE1			623			36.962	31.030	58.200		64.79
136	OE2			623			35.592	30.422	59.836		72.34
13.7	C			623			32.965	34.088	57.417		40.39
138	0	GLU						33.457	57.987		38.12
139	N			624			33.265	35.347	57.758		37.75
140	CA			624			32.522	35.965	58.889		36.41
141	CB	•		624			33.506	36.538	59.933		37.60
142	CG			624			34.593	35.546	60.354		34.22
	ÇD1			624			34.285	34.584	61.169		32.75
144	CE1			624			35.256	33.643	61.527		42.16
145	CZ			624			36.568	33.666	61.022		37.78
146	CE2			624			36.866	34.594	60.168		37.66
147	CD2			624				35,571	59.805		37.30

	A B	C,	Ď	E	, · .	F	G	H	I	Ĵ
148				624		31.569	37.066	58.437	1.00	35.68
149				624		30.875	37.739	59.261	1.00	36.44
150				625	•	31.557	37.336	57.140	1.00	35.15
151				625		30.731	38.445	56.714	1.00	32.08
152				625		31.164	39.011	55.423	1.00	32.29
153				625		32.177	38.633	54.858	1.00	32.00
154				626		30.422	39.990	54.988	1.00	33.82
155				626		30.710	40.519	53.695	1.00	37.80
150	-			626	.*	29.534	41.289	53.103	1.00	36.83
15				626		28.396		52.839	1.00	
158 159				626		27.343	40.941	51.992	1.00	
160				626		27.289	40.680	50.777	1.00	47.93
16:				626		26.632	41.773	52.553		43.41
162				626 626		31.896 32.262	41.377 41.878	53.719	1.00	37.16
16.				627	٠.	32.477	41.552	54.803 52.508	1.00	35.84
164				627	. '	33.711	42.268	52.392	1.00	35.91 34.05
169				627		34.839	41.340	51.861	1.00	36.58
166						36.210	42.135	51.691	1.00	30.17
16				627		34.986		52.740	1.00	33.27
168				627		33.388	43.380	51.461	1.00	34.18
169				627	,	32.633	43.157	50.568	1.00	31.95
170				628		33.990	44.575	51.680	1.00	33.62
17:	l CA			628		33.618	45.746	50.948	1.00	33.35
172	2 CB	TYR	Α	628		32.892	46.766	51.894	1.00	35.70
173	3 CG	TYR	Α	628		31.519	46.398	52.411	1.00	
174	4 CD1	TYR	Α	628	• .	31.344	45.529	53.497	1.00	34.62
17		- TYR	Α	628		30.088	45.215	53.976	1.00	36.28
17		TYR	Α	628		28.935		53.348	1.00	39.83
17				628		27.634	45.479	53.748	1.00	41.33
178		TYR				29.080	46.582	52.266	1.00	43.12
179				628		30.397	46.941	51.826	1.00	
180				628	•	34.890	46.407	50.597	1.00	33.72
18:				628		35.938	46.184	51.223	1.00	35.69
182				629		34.749	47.365	49.743	1.00	33.77
18,				629		35.792	48.236	49.369	1.00	36.45
184 185				629 629		35.613 36.692	48.688	47.939	1.00	36.34
186				629	6 ₅	36.232	49.598 50.858	47.624 47.072		41.68 45.46
18				629		37.426	51.809	46.890	1.00	
188				629		36.962	53.283	46.736		49.95
189				629		35.440	49.455	50.046		37.55
190				629		34.298	49.740	50.227		37.87
19:				630		36.415	50.286	50.355		41.21
192				630		36.010	51.559	50.912	1.00	
193				630			52,450	51.067	1.00	
194				630		38.205	52.287	50.392		45.71
19					,	37.086	53.363	52.008	1.00	46.92
196	6 CA			631		38.014	54.443	52.136		48.84
197	7 CB	MET				37.379	55.734	51.608		49.65
198				631		37.177	55.731	50.070	1.00	51.92
199) SD	MET	A	631		38.727	55.249	49.171	1.00	57.95
5								•		

A	В	C	D	. <u>E</u>			F		G	**,	Н	I	Ţ
200	CE	MET	Α	631			39.4	78	56.799		48.727	1.00	56.76
201	C	MET	A	631			38.3	79	54.619		53.587	1.00	49.23
202	0	\mathtt{MET}					37.4	93	54.616		54.462	1.00	
203	N	LEU					39.6		54.667		53.828		47.01
204	CA	LEU	Α	632			40.1	44	54.951		55.148	1.00	48.50
205 .	СB	LEU.			٠.		41.2		53.954		55.531	1.00	46.95
206	CG	LEU					41.9		54.217		56.805	1.00	47.11
207	CD1	LEU					40.9	,	53.899		57.902	1.00	45.89
208	CD2	LEU					43.1		53.311		56.944	1.00	47.90
209	Ç	LEU					40.6		56.425		55.221		50.08
210	0	LEU			,	٠.	41.3		56.932		54.323	1.00	
211	N	ALA					40.2		57.138		56.256	1.00	52.44
212		ALA			٠.		40.8		58.465		56.388	1.00	
213	CB C	ALA ALA					39.8 41.8		59.562		56.836	1.00	55.50
214 215	0	ALA					41.4		58.189 57.920		57.445 58.493	1.00 1.00	56.34° 58.62
216	N			634	٠,	٠.	43.1		58.194		57.224		57.84
217	CÅ	ALA		,		*	43.9		57.980		58.415	1.00	
218	CB.	ALA					45.3		57.774		58.115	1.00	62.22
219	C			634			43.7		59.263		59.222	1.00	62.67
220		ALA					44.4		60.208	,	58.850	1.00	64.38
221	N			638			43.3		64.048		56.993	1.00	78.26
	CA.	ALA				:	44.7		64.060		56.359	1.00	79.12
223	СВ	ALA					45.7		63.305		57,237	1.00	78.95
224	C			638			44.8		63.605		54.872	1.00	79.32
225	0			638			45.1		64.402		54.006	1,00	79.88
226	N	ALA	Α	639			44.5	31	62.334		54.589	1.00	78.59
227	CA	ALA	A	639			44.6	20	61.761		53.238	1.00	77.38
228	CB	ALA	Α	639			46.1	.19	61.531		52.875	1.00	78.65
229	C			639			43.8	343	60.408		53.247	1.00	75.52
230	0.	ALA	Ą	639			44.0		59.569		54.155	1.00	75.87
231	N			640			42.9		60.248		52.273	1.00	71.51
232	CA	* .		640			41.9		59.139		52.171		66.84
233	CB			640			40.7		59.599		51.433	1.00	66.51
234	CG			640			39.4		58.732		51.713		68.84
235	CD OF1			640		:	38.1		59.433		51.585	1.00	70.86
236	OE1 OE2	GLU					37.8		60.052		50.511		71.60
237 238	C	GLU		640	٠		37.2 42.5		59.351 58.052		52.561 51.379	1.00	70.47
239	0	-		.640					58.300		50.363		63.66 64.69
240	N			641			43.1		56.821		51.807		60.16
241	CA			641	-		43.0		55.721		51.100		55.19
242	CB			641			44.3		55.368		51.777		54.62
243		VAL					44.2		54.272		52.749		50.91
244		VAL					45.3		55.043		50.767		56.67
245	C			641			42.1		54.570	-	50.931		52.53
246	0			641			41.3		54.194		51.812		55.11
247	N			642			42.1		53.989		49.767		51.34
248	CA			642			41.2		52.776		49.477		47.14
249	CB.			642			41.6	64	52.399		48.064		47.64
250	CG			642			42.6	533	53.493		47.544		50.33
251	CD	PRO	Α	642			42.9	43	54.475		48.637	1.00	50.56

Express Mailing No. EV327523004US Docket No. SYR-EPHA2-5001-C1 Sheet 8 of 90

Α	В,	- C	D	E			F		G		Н		I.	. J	
252	Ċ.	PRO	Ά	642			41.62	5	51.589		0.367	,	1.00	45	19
253	O			642			42.81		51.373		0.765		1.00		
254	-	VAL				-	40.63		50.779		0.710		1.00		
255	CA	VAL					40.92		49.716		1.646		1.00		
256		VAL					40.65		50.209		3.117		1.00	37.	
257	CG1	VAL					41.88		50.269		3.733		1.00		
258	CG2	VAL					39.37		51.186		53.225		1.00	32.	
259	· C	VAL					39.92		48.664		1.373		1.00	36.	
260	0	VAL					38.82		48.941		0.848		1.00	38.	
261.	N			644			40.22		47.464		1.769				
262	CA			644			39.21		47.404 46.411		51.722				
		1											1.00		
263	CB			644			39.85		45.092		$\frac{1.412}{2.170}$		1.00		
264	C			644	٠.		38.72		46.373		3.179		1.00		
265	0			644		٠.	39.52		46.712		4.096		1.00	30.	
266	N		-	645					45.968		3.393		1.00	36.	
267	CA			645			36.92		45.950		4.744		1.00	34.	
268	CB			645			35.93		47.080		4.876		1.00		
269	CG1			645			36.57		48.336		4.488		1.00		
270	CD1			645			35.48		49.480		4.224		1.00		
271	CG2			645			35.31		47.127		6.304		1.00	32.	
272	C .			645		·	36.20		44.682		55.066		1.00		
273	0			645		_	35.11		44.491		4.584		1.00		
274	N			646			36.71		43.846	5	55.922	?	1.00		
275	CA	ĻYS	Α	646			36.00		42.632	٤	6.289)	1.00	38.	18
276	CB	LYS	Α	646			37.04	0	41.499		6633	}	1.00	39.	75
277	CG	LYS	Α	646			37.90		41.096		55.427	7	1.00	44.	65
278	CD	LYS	Α	646			38.71		39.873		55.721	-	1.00	47.	74
279	CE	LYS	Α	646	-1		38.77	75	38,957	· 5	4.557	7	1.00	56.	44
280	NZ	LYS	A,	646			40,01	6	39.325	. 5	3.698	3	1.00	67.	82
281	$C \cdot \cdot$	LYS	Α	646			35.07	8	42.871		7.482	2	1.00	37.	98
282	Ο,	ĻYS	Α	646			35.52	24	43,217		8.526	5	1.00	39.	11
283	N	THR	Α	647			33.77	19	42.703	E	7.344	<u> </u>	1.00	38.	53
284	CA	THR	Α	647			32.89	8	42.869	9	8.518	3.	1.00	35.	17
2.85	CB	THR	Α	647			31.62	20	43.563	. 5	8.086	5	1.00	35.	95
286	OG1	THR	Α	647	. •		30.88	36 [.]	42.779	9	57.136	5	1.00	31.	75 .
287	CG2	THR	Ą	647			31.97	7	44.751	. 5	7.224	Į	1.00	26.	19.
288	C	THR	Α	647			32.58	31	41.580		9.205	5	1.00	35.	41
289	0	THR	A	647			32.74	1	40.482		8.693	3	1.00	36.	20
290	N	·LEU	A.	648			32.20	8	41.704	(50.429	9	1.00	35.	38
291	.CA			648			31.91	.5	40.572		51.187		1.00		
292	СВ			648					40.708		52.523		1.00		
293	CG			648			32.17		39.634		53.510		1.00		
294		LEU			·		32.34		38.265		53.066		1.00		
295	CD2			648			32.93		39.707		54.670		1.00		
296	С			648			30.38		40.645		51.334		1.00		
297	Ō			648			29.87		41.630		51.869		1.00		
298	N			649		.*	29.63		39.670		50.813		1.00		
299	CA			649			28.17		39.764		50.832		1.00		
300	CB			649			27.61		38.564		50.128		1.00		
301	CG-			649	•		27.76		37.309		50.890		1.00		
302	CD			649		,			36.238		59.889		1.00		
303	CE			649			27.53		34.883				1.00		
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Α	В	Ç,	D	E			\mathbf{F}_{z}	G	H	I	J
304	NZ	LYS	A	649		27	.499	33.710	59.600	1.00	36.16
305	C			649			.630	39.998	62.226		38.13
306	0			649		28	.217	39.517	63.181		38.78
307	N	ALA	Α	650		26	.642	40.900	62.370		38.37
308	CA	ALA	A	650		-26	.009	41.267	63.688	1.00	38.30
309	· CB	ALA	Α	650		24	.721	41.954	63.443	1.00	37.99
310	C	ΑĻΑ	Α	650		25	.680	39.928	64.183	1.00	38.32
311	0			650			.410	39.138	63.320	1.00	40.75
312	N			651		25	.632	39.493	65,416	1.00	35.55
313	CA	GLY	Α	651			.195	38.071	65.179		36.67
314	C	GLY	Α	651		2,6	.171	36.916	65.234	1.00	33.22
315	, 0			651		25	.899	35.767	65.646		30.70
316	N	TYR	Α	652		-27	.390	37.294	65.039		34.28
317	CA			652			.455	36.416	65.446		36.25
318	CB			652			684	37.205			38.05
31,9	CG			652				38.292	66.484		38.76
320	CD1			652				38.086		1.00	
321	CE1			652				39.091	68.684	1.00	
322	CZ			652			.778	40.325	68.329		40.27
323	OH			652			.893	41.245			42.40
324	CE2			652			.178	40.584	67.038	1.00	
325	CD2			652			.169	39.556	66.141		38.47
326	Ç			652			.386	35.850	66.803		35.31
327	0			652			.919	36.531	67.696		34.45
328	N			653			.961	34.652	66.947		35.94
329	CA			653			.209	33.999	68.234		36.94
330	CB			653			.248	32.522	68.183		37.69
331	OG1			653			.427		67.433		40.83
332	CG2			653			.007	31.792	67.363		32.24
333	C			653			.595	34.418	68.718		37.14
334	0			653			.347	34.985	68.015		37.03
335		GLU			-		.831	34.210	69.998	1.00	
336	CA			654			.094	34.484	70.674	1.00	37.20
337	CB			654			.074	33.802	72.025	1.00	
338 339	CG CD			654			.380 .571		72.705	1.00	
340	OE1			654 654				35.731	72.609		48.08
341	OE2						.591		72.366		54.40
				654 654			.675	36.206	72.771		46.32
342 343	C O			654			.316 .306	33.880 34.579	69.890 69.620		35.96
344	N			655			.161	32.605	69.577		33.58 35.57
345	CA			655			.030	31.857	68.747		39.28
346	CB			655			.532	30.394	68.482		39.74
347	CG			655	*		.682	29.481	68.003		46.57
348	CD			655			.375	28.446	66.854		53.64
349	CE			655			.674	27.584	66.374		58.92
350	NZ			655			.147	28.174	66.350		58.41
351	C			.655			.326	32.574	67.379		38.72
352	0			655			.481		67.012		41.81
353	N			656			.329	33.111	66.678		35.08
354	CA			656			.583	33.809			36.08
355	CB			656			.355	34.070	64.590		32.82
	ب	٧٠٠٠٧		55,5		22	- 500	24.070	0.4.270	1.00	22.04

Α	в с	D E		F	G	H H	I	J
356	CG GLN	A 656		31.709	32.793	64.216	1.00	35.27
1357°	CD GLN	A 656		30.255	32.982	63.707		37.96
358	OE1 GLN	A 656		29.471	33.846	64.157	1.00	30.18
359	NE2 GLN	A 656	i	29.948	32.217	62.693	1.00	42.57
360	C GLN	A 656	·	34.305	35.111	65.659	1.00	35.54
361		A 656		35.196	35.485	64.899	1.00	35.47
362	Ņ AŖĠ	A 657		33.951	35.722	66.760	1.00	35.39
363	CA ARG	A 657		34.557	36.985	67.147		39.00
364	• •	A 657		33.923	37:539	68.413	1.00	37.06
365	and the second second	A 657		34.401	38.841	68.811		40.49
366		A 657		34.033	39.137	70.269		41.44
367		A 657		34.843	40.262	70.614	1.00	
368		A 657		35.982		71.383	1.00	54.52
369	NH1 ARG	1		36.451		71.945	1.00	43.49
370		A 657		36.616	41.349			55.48
371 372		A 657		36.017	36.717	67.311		38.95
		A 657		36.826	37.240	66.592	1.00	37.52
373 374		A 658		36.331 37.722	35.771 35.481	68.150 68.321		42.72 45.25
375		A 658		37.722	34.577		1.00	47.74
375		A 658		39.291	33.787	69.368	1.00	48.43
377		A 658		37.935	35.483	70.791		49.98
378	C VAL			38.449	35.036		1.00	45.07
379	O VAL			39.466	35.669	66.720		44.99
380.		A 659		37.913	34.045	66.299		42.92
381		A 659		38.561	33.655	65.043		41.99
382		A 659		37.891	32.498			41.26
383		A 659		37.826	31.278	65.177		45.94
384		A 659		37.109	30.301	64.847	1.00	46.31
385	OD2 ASP	A 659	j	38.451	31.252	66.249	1.00	
386	C ASP	A 659	٠.	38.683	34.857	64.176	1.00	39.97
387	O ASP	A 659)	39.687	35.012	63.586	1.00	36.58
388.	N PHE	A 660)	37.703	35.756	64.220	1.00	38.73
389	CA PHE	A. 660)	37.765	36.881	63.312	1.00	39,49
390		A 660		36.385	37.556	63.203	1.00	37.46
391	CG PHE			36.343	38.830	62.388	1.00	33.56
392	CD1 PHE			36.342	40.047	62.976	1.00	32.33
393		,		36.323	41.209	62.257	1.00	28.65
394		A 660		36.136	41.248	60.858		24.95
395	CE2 PHE			36.059	40.060	60.259		28.98
396	CD2 PHE			36.099	38.814	61.088		32.15
397 398		A 660 A 660		38.897	37.885	63.675 62.825		39.32 38.41
399		A 661		39.584 39.061	38.276 38.276	64.928		40.15
400		A 661		40.011	39.306	65.232		42.07
401		A 661		39.711	39.915	66.582		43.38
402		A 661		38.437	40.774	66.709,		43.55
403		A 661		38.306	41.372	68.133		39.97
404		A 661		38.580	41.902	65.756		37.68
405		A 661		41.347	38.552	65.294		41.94
406		A 661		42.340	39.129	65.120		41.62
407		A 662		41.349	37.252	65.485		39.75
				* * * * * *		-		

Α	В	C	Ď	E			7	F	G		H	I,	J
408	CA	GLY	Α	662			42.	. 603	36.635	6	5.570	1.00	40.93
409	С	GLY					43.	.418	36.757		4.273		43.18
410	0	GLY						.590	37.160		4.286		42.86
411	N	GLU	Α	663			42.	.779	36.439	6	3.154	1.00	42.57
412	CA	GLU	Α	663			43.	.393	36.553	6	1.894	1.00	42.39
413	CB	GLU	Α	663			42.	.379	36.281	6	0.792	1.00	44.11
414	CĢ	GLU	A	663			42.	. 829	36,991	5	9.480	1.00	48.03
415	ÇD	GLU	Α	663	-		42.	.396	36.230	5	8.234	1.00	54.58
416	OE1	GLU				٠.	41	241	35.605	5	8.330	1.00	52.44
417	OE2	GLU	Α	663				.208	36.292	5	7.213	1.00	53.06
418	C	GĻU	А	663			43	.976	37.968	6	1.741	1.00	40.61
419	0	GĻŲ	Α	663			45.	.090	38.192	6	1.213		37.63
420	N	ALA	Α	664				.273	38.944	6	2.230	1.00	38.99
421	CA	ALA						. 939	40.237		2.062		40.23
422	CB			664		•		.965	41.347		2.358		41.34
423	C	•		664				.114	40.278		3.055		39.40
424	Ö	ALA	Α	664			46	.136	40.873	6	2.831		39.10
425	N·	GLY	Α	665	- :		44	.989	39.570		4.138		38.27
426	CA	GLY					46	.087	39.586	6	5.064	1.00	42.63
427	Ċ	GLY	A	665			47	.347	39.076	6	4.355		44.59
428	0	GLY	Α	665				.410	39.610	6	4.610		45.78
429	N			666				200	38.070		3.464		44.36
430	CA	ILE	Α	666		•		.295	37.277		2.941		42.46
431	CB :	ILE	Α	666			47	.627	36.023	6	2.510	1.00	44.08
432	CG1	ILE	Α	666				.247	35.276	∴6	3.731	1.00	42.77
433	CD1	ILE	Α	666			46	.394	34.096	6	3.279	1.00	43.64
434	CG2			666			48	.406	35.006	6	1.565	1.00	42.50
435	C	-		666			48	.846	,-38081		1.853	1.00	41.32
436	Q.	-		666				.986	38.330		1.798		41.39
437	Ŋ.	MET						.988	38.726		1.143		41.98
438	CA			667				.371	39.417		9.971		41.72
439	CB			667				.073	39.871		9.303		42.41
440	CG			667				.154	40.885		8.149		41.60
441	SD	MET		667				.384	40.798		7.345	1.00	
442	CE			667				.917	39.215	-	7.870		44.36
443			-	667				.155	40.575		0.497		42.65
444	0	MET		667				.088	41.128		9.816	1.00	38.11
445	N			668			-	.790	40.953		1.734		42.74
446	.CA			668				.348	42.203		2.310		42.47
447	C			668				.820	42.083		2.677		40.74
448	0			668				.552	43.010		2.772		39.44
449	Ņ			669				. 241	40.861		2.790		40.10
450	CA			669	-			. 563	40.577		3.149		40.54
451	CB			669				.547	39.193		3.729		39.50
452	CG			669				.011	39.318		5.065		43.35
453	CD OF1	_		669				.833	37.999		5.772		53.41
454	OE1	GLN						.716	37.616		6.048		59.36
455	NE2			669	·.			.917	37.334		6.121		57.56
456	C			669				.472	40,657		1.955		41.95
457	0			669				.683	40.622		2.152		41.00
458	N			670.		٠		.922	40.908		0.729		40.25
459	CA	БÜП	А	670				.738	40.932	כ	9.578	1.00	38.18

A	В	С	D	Ε			F		 G		Н	I	J
460	СВ	PHE	Α	670		53.	159	40.0	016	5_8	.570	1.00	40.10
461	CG	PHE	Α	670		52.	990	38.6	523 ·		.105	1.00	35.26
462	CD1	PHE	Α	670		51.	962	37.8	897		751	1.00	33.32
463	CE1	PHE	Α	.670	:		803	36.6	521		.214	1.00	35.47
464	CZ	PHE	Α	670		52.	720	36.0	032	59.	976	1.00	36.73
465	CE2			670			818	36.			.310	1.00	40.51
466	CD2	•		670			948	38.0			833	1.00	37.75
467	Ç	PHE			· • • • • • • • • • • • • • • • • • • •		941	42.2			974	1.00	39.07
468		PHE					038	43.0			.012	1.00	37.82
469	N			671			170	42.4			. 485	1.00	37.93
470	CA	SER					327	43.			.712	1.00	39.08
471	CB			671			937	44.8			. 533	1.00	
47:2	OG	•		671			915	46.0			754	1.00	
473	C			671			231	43.4	-		.466		41.33
474	O .			.671			490		349		.554		38.64
475	N CA	HIS		672			586	43.3			. 295 . 089		42.48
476 477	CA CB	HIS			·		279. 565	42.8			. 190		42.62
478	СĞ	HIS					524	40.5			. 156	1.00	42.23
479	ND1	HIS			;		142	40.			. 825	1.00	47.30 46.67
480	CE1	HIS			1.1		240	40.			. 126	1.00	45.98
481	NE2	HIS					289	40.			.949	1.00	44.11
482		HIS		672			874	40.			.214	1.00	45.01
483	C	HIS					513						42.33
484	Ö	HIS					388		761			1.00	41.57
485	N	HIS					192	43.			.819		42.80
486	CA			673	*		610				. 553	1.00	42.36
487	СВ	HIS			·		722-						38.97
488	CG	HIS	Α	673			262	44.			. 249	1.00	46.80
489	ND1	HIS	A	673		.55.	503	46.	087	48	.211	1.00	49.74
490	CE1	HIS	Α	673		55.	348	46.	487	46	.956	1.00	43.86
491	NE2	HIS	Α	673		55.	959	45.	613	46	.172	1.00	43.54
492	CD2	HIS	Α	673	•	56.	496	44.		46	.944	1.00	42.26
493	·C			673	-		523	43.		49	. 883	1.00	40.55
494	Q			673			543	43.	601	49	.310	1.00	42.61
495	N			674			764	41.			.005	1.00	36.25
496	CA			674			035	40.			.374		38.32
497	СВ			674			074	39.			.740	1.00	39.80
498	CG	ASN					870	40.			.607		36.97
499		ASN					321	40.			.582		35.65
500		ASN					139	40.			.847		37.21
501	.C			674			281		177		.440		38.05
502	0			674			058	38.			288		37.79
503 504	Ņ			675			996.	40.			.586 .641		38.03
504 505	CA CB			675 675			081 790	40.			.920	1.00 1.00	36.57 36.46
506	CG1	ILE		675			903	39.			.672		33.71
507	CD1	ILE		675			464	37.			483		35.15
508	CG2			675			921	39.			.965		31.06
509	C			675			979	41.			.797	1.00	38.05
510	0			675			256	42.				1.00	35.21
511	N			676			724				.661		37.36
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Α	В	C	Ď	E;			F		G		Н	I.	J
512	CA	ILE	Α	676		4.8	. 617	4	1.868	₹ .	52.857	1:.00	37.03
513	CB			676			.229		1.162		52.874		37.73
514	CG1			676			.734		0.942				41.75
515	CD1			676			.828		9.276		50.877		38.59
516	CG2			676			.105		2.067		53.361		39.38
517	C			676					2.654		54.162		35.26
518	0			676			.978		2.142		55.242		
519	N	ARG					.683		3.918		54.025		34.27
520		ARG					.910		4.789				36.19
521		ARG		,			.494		6.075		54.510		36.64
522	CG			677			.536		7.178		55.599		41.64
523	CD	ARG					.506		8.285		55.229		47.74
524	NE	ARG					.825		9.350		54.572	1.00	
525	CZ :	ARG					.795		9.516		53.246		61.80
526		ARG							8.610		52.436		54.93
527	NH2	ARG					.096		0.568	-	52.734		55.75
528	C			677			.670		5.163			,	35.14
529	,0			677			.723		5.624		55.334		37.56
530				678		-	.670		4.907				36.98
531	CA	ĻEU							5.306		58.012		37.75
532	CB			678			.636	4	4.533	3	59.287		37.13
533	CG			678			.644		5.003				38.89
534	CD1			678			.186		4.629		59.808		40.66
535		LEU					.909		4.223		61.548	4	36.72
536	C			678			.592		6.739		58.328		36.93
537				678			,505		7.253		58.861		37.75
538	N			679	-		.585		7.452		57.961		
539	CA			679			.583				58.351		41.67
540	CB			679			.596		9.592		57.532		42.01
541	CG			679			.045		9.720		56.088		43.00
542	CD			679			.208		0.642		55.968		54.85
543		GLU					.055		0.299		55.162		60.51
544		GĻŲ					.321		1.678		56.698		58.17
545	С			679			.182		8.939		59.817		43.77
546	0	GLU	Α	679			.579		9.921		60.483		45.58
547	N			680			.383		7.987		60.317		43.57
548	CA	GLY	Α	680			.778		8.130		61.635		43.39
549	С	GĻY	Α	680		42	.428		7.436		61.718		43.49
550	O.	GLY	Α	680		41	.870	· 4	6.994	1	60.730	1.00	43.61
551	N			681		41	.917		7.300		62,921		43.77
552	CA ·	VAL	Α	681		40	.638	4	6.712	2	63.148	1.00	45.21
553	ĊВ	VAL	Α	681		40	.739	4	5.577	7	64.095	1.00	44.87
554	CG1	VAL	Α	681		41	.831	, '4	4.596	5	63.645		46.36
555	CG2	VAL	Α	681		41	.163	4	6.141	Ł	65.458	1.00	48.19
556	С	VAL	Α	681		39	.714	. 4	7.667	7	63.826	1.00	47.24
557	0	VAL	Α	681		40	.146	4	8.697	7	64.420	1.00	49.54
558	N	ILE	A	682	•	3.8	.444	4	7.292	2	63.827		47.38
559	CA	ILE	Α	682		37	.419		8.006		64.569	1.00	48.87
560	CB			682			.375		8.569		63.710	1.00	48.22
561	CG1	IĻE	Ą	682			.958	4	9.768	3	62.995	1.00	48.43
562	CD1	ILE	A	682		35	.994	5	0.53	Ĺ	62.288	1.00	44.35
563	CG2	ILE	A	682		35	.350	4	9.079	9	64.642	1:00	51.05
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. A	В	C	Ď	E			•	F		G		Н	. I	J
564	C	ILE	A	682			36	.787	46	.983	6.5	5.439	1.00	49.28
565	0	ILE	Α	682		٠.	36	.073	46	.091	64	1.927	1.00	47.34
566	N	SER	Α	683		. 7	37	.128	47	.028	66	5,720	1.00	49.45
567	CA	SER	Α	683			36	.611	46	.043	6	7.629	1.00	52.94
568	ĊВ	SER	Α	683		•	37	.745	45	.283	68	3.237	1.00	52.37
569	OG	SER	A	683		-	38	.501	46	148	69	0.035	1.00	57.12
570	C	SER	Α	683			35	. 865	:46	. 665	. 68	3.798	1.00	55.66
571	0	SER	Α	683	-		35	.285	45	.961	69	9.632	1.00	56.40
572	N.	LYS	A	684			35	. 893	. 47	.987	68	3.884	1.00	57.01
573	CA	LYS	Α	684			35	.286	48	.589	7.0	0.046	1.00	57.46
574	CB	LYS	A	684	•	•	36	.154	49	.729	7.0	0.595	1.00	56.07
575	CG	LYS	Α	684			37	.282	49	.187	7:	1.564	1.00	58.30
576	CD	LYS	Α	684			38	.630	49	.925	.71	1.446	1.00	58.07
577	CE	LYS	Α	684			38	.562·	51	.505	7:	1.950	1.00	65.46
578	NZ	LYS.	Α	684			39	.871	52	.366	7	1.881	1.00	62.96
579	C	LYS	Α	684			.33	.821	48	.865.	6.9	9.727	1.00	57.78
580	0	LYS	A	684			32	.999	48	.795	7	0.580	1.00	58.15
581	N	TYR	Α	685			3.3	.467	48	.977	68	3.464	1.00	58.96
582	CA	TYR	A	685			32	.075	49	.289	68	3.086	1.00	59.96
583	CB	TYR	Α	685			31	.994	50	.682	6	7.473	1.00	60.66
584	CG	TYR	Α	685		·	32	.713	51	.794	6	8.195	1,.00	63.95
585	CD1	TYR	À	685			32	.081.		.033	6	8.444	1.00	68.40
586	CE1	TYR	Α	685			32	.793	54	.105	6	9.056	1.00	72.55
587	CZ	TYR	Ą	685	-		34	.165	53	.916	6	9.401	1.00	73.82
588	OH	TYR	Α	685			34	.955	54	.898	7	0.023	1.00	70.57
589	CE2	TYR	Α	685				.766		.684	6	9.116	.1.00	70.32
590	CD2	TYR			-		34	.035		.660	6	8.523	1.00	65.77
591	C	TYR	Α	685				.407	48	.309		7.090		60.40
592	0	TYR						.026		.310		5.713		61.88
593	N			686				.162		.569		5.649	**	59.90
594	CA	LYS		686				.579		.680		5.656		58.82
595	CB			686				.498		.716		5.024		59.93
596	CG			686				.096				5.530		59.37
597	CD :	LYS		686				.072		.326		8.040		64.32
598	CE			686				.146		.244		8.676		67.97
599	NZ			686				.718		.703		9.957		66.41
600	C	LYS		686				.658		.859		4.242		59.00
601	0			686				.403		.925		3.673		61.49
602	N			687				.432		.717		3.735		56.91
603	CA							101		.699		3.006		53.48
604	CB			687				.846		.015		1.546		55.46
605	CG			687	-			.763		.004			1.00	56.97
606	CD			687				.593		.506		2.796		57.11
607	- C			687	, .			.572		.851		3.404		50.95
608	O			687				.164		.919		3.374		49.51
609 610	N			688				.169		784		3.861 3.904		48.57
610 611	CA CB	MET		688				.610 .037		.783 .690		3.904 4.784		45.58
612	CB CG	MET MET		688 688	-			.358		.867		4.784 6.128		44.26 46.14
613		MET		688				.181	-	.726		7.123		50.45
614	CE.	MET		688				.972		.348		8.460		55.70
615	CE			688				.060		.576,				45.64
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A	В	С	D	E				F		G		Ħ	I	J
616	0	MET	À	688		•	33.	364	43,	928	(51.647	1.00	43.85
617	N.	MET					35.	223		158		52.136		44.48
618	CA	MET	Α	689			35.	872	45.	203	(60.853	1.00	41.56
619	CB	MET	Α	689			35.	682	46.	594	(50.344	1.00	40.68
620	CĢ	MET	Α	689			34.	291	46.	942	(50.319	1.00	37.62
621	SD	${\tt MET}$	Α	689			33.	939	48.	310	!	59.192	1.00	42.01
622	CE	\mathtt{MET}	Α	689			34.	300	49.	294	(60.146	1.00	46.45
623	С .	MET	Α	689		ť	37.	362	44	919	. (50.908	1.00	41.69
624	0.	MET	Α	689			37.	977	45.	178		61.897	1.00	39.55
	N	ILE	Α	690			37.	940		373		59.830	1.00	40.03
626	ĊA	ILE	Α	690	,		39.	410		156		59.726		38.46
627	CB	ILE	Α	690		*	39.	650		717		59.574	1.00	38.25
628	CG1	ILE	Α	690				323		011		60.848	1.00	33.60
629	CD1			69Q		1		562	40.			60.720	1.00	
630	CG2	ILE						038		467		59.271		40.53
631	C			690	-			644		923		58.495	1.00	38.31
632	Ö			690				862		775		57.519	1.00	
633	N	ILE	A	691				509	45.	952		58.568	.1,00	
634	CA			691				764	46.	894		57.444	1.00	36.53
635	CB	ΪĽΕ	Α	691	:		40.	907		317		57.943	1.00	37.55
636	CG1			691				876				59.047		39.31
637	CD1	ILE	Α	691				393		990		58.541		32.39
638	CG2	ILE	Α	691			40.	907	49.	256	1	56.831	1.00	37.29
639	Ç	ILE	A	691		٠.		158	46.	590		56.770	1.00	38.01
640	0	ILE	Α	691				218		620		57.463	1.00	38.01
641	N	THR	Α	692				182 -	46.	381	!	55.445	1.00	37.20
642	CA	THR	A	692				445		080		54.734		36.47
643	CB			692				566	-44.	593		54.387		35.20
644	OG1	THR						564		283		53.451	1.00	
645	CG2	ŢĦŖ						156	43.	824		55.543		30.57
646	. C			692				683		861		53.537	1.00	36.06
647	0			692				841		599		53.075		37.50
648	N			693				893		762		53.018	1.00	36.84
649	CA			693				200		581		51.862		34.75
650	CB	GĻU						688		414		51.456		34.83
651	CG	GLU			, .			212		989		51.487	1.00	
652	CD			693				611		888		50.934	1.00	
653	OE1	GLU	A	693			49.	308		958	: !	51.275	1.00	
654	•	GLU			•			039		754		50.177		38.27
655	C			693				262		082		50.823		35.09
656	0			693				970	*	920		50.773		36.98
657	N			694				698				50.038		36.62
658	CA			694		-		849		622		48.960		37.31
659	CB			694				179		887		48.452		37.54
660	CG			694				184		414		47.412		42.14
661	CD1			694				184		943		46.116		43.68
662	CE1			694				308		458		45.146		43.19
663	CZ			694				456		373		45.442		43.99
664	OH			694				543		885		44.453		50.45
665	CE2			694				497		773		46.700		45.46
666	CD2			694				400		254		47.673		43.35
667	C	ΉXΚ	Ą	694			43.	600	46.	896	•	47.705	Ť.00	37.33

Α	В	Ç	D	E		F	G	Н	İ	J
668	0	TYR	A	694		44.550	47.410	47.236	1.00	36.42
669	N	MET	Α	695		43.211	45.693	47.297	1.00	36.44
670	ÇA	MET	Α	695		43.873	45.008	46.147	1.00	38.70
671	CB	MET		695		44.266	43.583	46.553	1.00	36.76
672	CĢ	MET	A	695		45.185	43.564	47.793	1.00	36.63
,673	SD	MET	Α	695		46.870	44.267	47.620	1.00	38.01
674	СĒ	MET	Α	695		47.436	42.869	46.677	1.00	33.07
675	. C	MET	Α	695		42.889	44.957	44.909	1.00	40.11
676	O.	MET	Α	695		42.039	44.111	44.843	1.00	42.18
677	N	ĢĻŲ				43.005	45.883	43.975	1.00	40.26
678	CA	GLU	Ą	696		42.088	46.032	42.896	1.00	41.93
679	СВ	GLU	Α	696		42.712	46.973	41.893	1.00	
680	CG	GLŲ	Α	696		42.480	48.440	42.115	1.00	48.76
681	CD			696	. :	41.565		40.999	1.00	58.48
682	OE1			696		40.566	48.194			63.90
683	OE2	GLU			٠.	41.916	50.017	40.443		62.65
684	Ç			696		41.889	44.764	42.103		41.93
685	Q			696		40.789	44.446	41.706		44.34
686	N	ASN				42.922	43.979	41.880	1.00	39.85
687	CA	ASN				42.618	42.947	40.921	1.00	38.87
688	CB.	ASN	Α	697		-43.808	42.705	39.966	1.00	38.40
689	CG	ASN				43.812	43.672	38.784	1.00	40.20
690	OD1	ASN				44.849	44.178	38.347	1.00	44.17
691	ND2	ASN	Α	697		42.558	43.959	38.269	1.00	45.86
692	C_{i}	ASN				42.157	41.756	41.647	1.00	37.90
693	0	ASN	Α	697		41.992	40.689	41.026	1.00	39.69
694	N	GLY	Α	698		42.062	41.848	42.992	1.00	33.49
695	CA-			698		41.403	40.701	43.621	1.00	28.87
696	C .	GLY				42.204	39.491	43.680	1.00	29.77
697	0	GLY		698		43.383	39.592	43.682	1.00	29.55
698	N			699		41.559	38.342	43.701	1.00	29.72
699	CA			699		42.186	37.154	43.998	1.00	29.38
700	CB			699		41.204	36.198	44.395	1.00	26.29
701	C.			699		42.995	36.675	42.794	1.00	33.59
702	0			699		42.596	36.859	41.676	1.00	31.03
703	N			700		44.050	35.887	43.011	1.00	34.21
704	CA	LEU		700	*	44.921	35.788	41.802	1.00	34.10
705	CB	LEU		700		46.407	35.560	42.179	1.00	32.00
706	CG	LEU			*	47.319	34.761	41.280		31.11
707		LEU				47.764	35.687	40.259	1.00	
708	CD2	LEU		700		48.550	34.238	42.076		28.60
709	С			700		44.409	34.800	40.866	1.00	33,32
710	0			700		44.504	35.041	39.691		33.33
711	N			701		43.814	33.697	41.348	1.00	34.11
712	CA	AŞP				43.402	32.617	40.406		35.12
713	CB -	ASP			-	42.894	31.383	41.064		33.80
714	CG OD1	ASP		701		41.715	31.594	41.891		34.53
715 716		ASP				41.531	32.676	42.421		30.09
716		ASP		701		40.923	30.670	42.118	1.00	37.42
717	C .	ASP		701		42.326	33.068	39.463		36.51
718	. O			701	•	42.123	32.568	38.350		37.86
719	N.	птр	A	702		41.562	34.003	39.970	T:00	37.59

А	В	C	D	Ę.,				F		G	**. **!	Н.		Ĭ.	:	J
720	CA	LYS	Α	702			40.	659	34	.530	39	.118		1.00	36	. 66
721	CB	LYS	Α	702				348		752	39	.976		1.00		
722	CG	LYS	Α	702			38.	. 479	35	.942		.600		1.00		.13
723	ÇD	LYS	Α	702				311	36	.218	40	.641	٠.	1.00	56	.19
724	CE	LYS	Α	7.02			35.	.951	36	.757	40	.026	-	1.00	59	.70
725	NZ	LYS	Α	702			35	.195	35	.733	39	.227		1.00	67	.51
726	C	LYS	Α	702			40	.878	35	. 646	38	.132		1.00		
727	0	LYS	Α	702				206	35	.681		.082		1.00		
728	N	PHE	Α	703				.549		.665		.605			33	
729	CA	PHE		703				.200		. 643		.765		1.00		
730	CB	PHE		703				.332		.312		.567		1.00		
731	CG	PHE		703	-1			.012		.505		.876		1.00	,	
732	CD1	PHE	A	7.03				.177		.498		.330		1.00		
733	CE1	PHE		703				.732		.626		.757		1.00		
734	CZ	PHE						.135				.641		1.00		
735	CE2	PHE		703.				.994		.790		.203		1.00		
736	CD2		A	703	٠.			.473				808		1.00		
737 738	C O	PHE	A	703				.876		911		.599 .553		1.00		
739	N	PHE	A A	703 704				.629 .688		.269 .901		. 842		1.00 1.00		
740	CA	LEU		704				. 382		. 252		.803		1.00		
741	CB	LEU		704				.213		.181		.373		1.00	32	
742	ÇĢ	LEU		704				.458		.749		.087		1.00	36	
743	CD1	LEU		704				.352		.579		.374		1.00	37	
744	CD2			704				195		.016		.306		1.00	37	
745	C	LEU		704		-		. 422		.649		.912		1.00		.85
746	0			7.04				.715		.499		.721		1.00		
747	N	ARG						236		.267		.435		1.00		
748	CA	ARG						.330		.575		.495		1.00		
749	ĊВ	ARG	Α	705				.284		.784		.157			37	
75.0	CG	ARG	Α	705			40	854	31	.540	35	.460		1.00	40	.12
751	CD	ARG	Α	705		•	39	.889	30	. 555	35	.686		1.00	40	. 84
752	NE	ARG	Α	705			39.	.223	30	.917	3,6	.889		1.00	40	.80
753	CZ	ARG	Ą	7.05				.621	30	.530	38	.094	•	1.00	48	.75
754	NH1			705			,	.912		.876				1.00		
755		ARG		705				.700		.778		.239		1.00		
756	C ,	ARG		705	:-			. 673		.528		.555		1.00	38	
757	0			705				.320				.473		1.00		.65
758	Ņ			706				.500		.728		.028		1.00		
759	CA			706				.969		744		.282		1.00		
760	CB			706				517		.804		.231		1.00		
761				706				.247		.363		.881		1.00		
762	CD OE1			706	: .			.786		.278		.015		1.00		
763	OE1							.711		. 952		.578		1.00		
764 765	OE2 C			706 706				.517 .921		.275 .385		.357 .278		1.00		
766	0			706				. 495		.051		.411		1.00		
767	Ņ	LYS								. 278		.465		1.00		
768	CA	LYS						.145		.027		.602		1.00		
769	CB			707				.085		.856		.502		1.00		
770	CG			707				.436		.070		.159		1.00		
771	CD			707	*			.537		.850		.178		1.00		
								1,11	-	- -			. '			- •

Α	В	, C	D	E			•	F		G	Н		ı	J
772	CE	LYS	Α	707		. 4	11.	828		42.152	32.801		1.00	43.91
773	NZ	LYS	,	707				468		43.446	32.199			46.63
774	С			707				963		36.986	30.907			34.83
775	0	LYS			. •	4	15.	140		37.112	30.851			31.51
776	N			708				310		35.854	30.599		1.00	
777	CA	ASP	À	708				961		34.687	30.142		1.00	
778	CB	ASP			٠,			937		33.630	29.906		1.00	
779	CG			708		-		549		32.340	29.318			37.91
780	OD1	ASP	Ą	.708				713		32.065	29.373			46.66
781	OD2	ASP	Α	708	•	4	12.	940		31.505	28.741			51.37
782	Ç	ASP	Α	708		4	4.	823		34.932	28.843		1.00	33.85
783	0	ASP	Α	708		4	4.	332	•	35.563	27.880	,	1.00	33.03
784	N	GLY	À	709		4	ļ6.	076		34.438	28.842		1.00	32.14
785	CA	GLY	Α	709		4	16.	985		34.781	27.796	-	1.00	32.46
786	C	GLY		709				341		36.273	27.734		1.00	33.50
7.87	0	GLY		709		4	18.	010		36.740	 26.849		1.00	32.44
788	N	GLU	Α	710		, 4	17,	011		37.043	28.715		1.00	33.77
789	CA	GLU			•	4	<u>1</u> 7.	365		38.445	28.521		1.00	35.02
790	CB	GLU	Α	710				198		39.448	28'.823		1.00	
791	CG	GLU		710				870		39.054	28.228		1.00	
792		GLU						843		40.107	28.521		1.00	41.03
793		GLU			, ;			173		41.360	28.693		1.00	44.53
794	OE2	GLU		710				704		39.661	28.521			38.77
795	C	GĻU						602		39.017	29.221		1.00	36.64
796.	. O	GLU				4	18.	820		40.227	29.192			34.62
797	N			711	· 15.			403		38.185	29.832		1.00	
798	CA	PHE						510		38.792	30.525		1.00	
799	CB			711				414		38.384	32.039	-		38.28
8.00	CG			711				322		39.225	32.812			38.60
801	CD1	PHE						302		38.610	33.509			38.93
802	CE1			711				359		39.316	34.196			36.81
803	CZ			711				377		40.696	34.129			43.70
804	CE2		Α	711				361		41.361	33.378			42.48
805	CD2	PHE			x 1 z			320		40 609	32.722	:		36.32
806	C	PHE						731		38.237	29.795		1.00	
807	0	PHE		711				653		37.191	29.189			38.38
808	N			712				829		38.954	29.832			37.51
809 810	CA	SER	-		•	_	-	054		38.463	29.318			37.68
	CB			712	•			019 482		39.640	29.207		1.00	
811 812	OG C			712 712				533		39.865 37.373	30.488			38.72 38.11
813	0			712				143		37.370				
814								345			31.560			36.94
815		VAL.						970		36.430 35.463	29.853 30.743			36.56
816	CB	VAL						860		34.555	29.902			38.74 40.25
817		VAL						880		33.741	30.734			40.25
818	CG1	VAL						973		33.661	29.047			46.85
819		VAL						973 820.		36.172	31.891			38.93
820	0	VAL			•			034		35.653	33.003			38.80
821	Ŋ			714				279		37.366	31.621		1.00	
822	CA			714				081		38.031	32.613			40.96
823	CB			714				951		39.068	31.898			40.30
ريرب	. 01	ں ہیں	А	, <u>, , , , , , , , , , , , , , , , , , </u>		-		پ ر ر		٥٥٥، در	71.020		±.00	±0.00

A	В	C I	D E		F	G	Н	I	J.
824	CG	LEU Z	A 714		60.120	39.781	32.561	1.00	45.88
825	CD1		A 714		61.094	38.833	33.052		46.43
826	CD2		A 714		60.780	41.002	31.669		38.74
827	С		A 714		57.168	38.638	33.698		40.29
828	0	LEU A			57.505	38.570	34.844		44.01
829	N		A 715		55.998	39,165	33.341		39.22
830	CA		A 715		55.001	39.613	34.321		36.85
831	СВ		A 715		53.868	40.332	33.636		38.50
832	CG	GLN A			54.218	41.672	33.012		29.96
833	CD		A 715		53.075	42.067			28.87
834	OE1		A 715		52.617	41.293	31.387		32.88
835	NE2		A 715		52.490	43.193	32.455		33.61
836	C		A 715		54.509	38.407	35.125		36.09
837	0		A 715		54.324	38.479	36.350		38.22
838	N		A 716		54.447	37.245	34.514		34.64
839	CA		A 716		54.000	36.106	35.305		34.14
840	CB	-	A 716		53.658	34.883	34.441		33.25
841	CG		A 716		52.373	35.072	33.597		34.69
842		LEU			52.021	33.922	32.684		40.42
843		LEU			51.151	35.391	34.465		35.13
844	С		A 716		55.008		36.325	-	36.34
845	0		A 716		54.687	35.526	37.487		38.96
846	N·		A 717		56.247	35.640			35.71
847	CA		A 717		57.282	35.173	36.716		33.91
848	СВ		A 717	r	58.571	35.031			35.17
849	CG1	VAL .				34.711			29.77
850	CG2	VAL			58.367	33.983	34.852		38.75
851	С		A 717		57.580	36.125	37.850		33.83
852	0		A 717		57.880	35.699	38.947		31.28
853	N		A 718		57.534	37.416	37.555		31.97
854	CA	GLY .	A 718		57.503	38.426	38.592		35.27
855	С		A 718		56.292	38.282	39.565		36.66
856	0		A 718		56.491	38.537	40.791		39.82
857	N	MET .	A 719	l	55.089	37.891	39.114	1.00	35.07
858	CA	MET .	A 719		54.036	37.707	40.103	1.00	34.57
859	CB	MET A	A 719		52.605	37.454	39.502	1.00	34.98
860	CG	MET 2	A 719	· •.	52.011	38.624	38.740	1.00	38.87
861	SD	MET	A 719		50.791	38.025	37.564	1.00	43.45
862	CE	MET	A 719		50.085	39.579	36.958	1.00	37.28
863	C		A 719		54.549	36.568	40.960	1.00	34.85
864	Ο.,	MET .	A 719		54.303	36.521	42.201	1.00	34.62
865	N		A 720		55.287	35.643	40.362		33.93
866.	CA	LEU .	A 720		55.655	34.523	41.175	1.00	35.01
867	CB	LEU			56.042	33.265	40.370		34.91
868	CG		A 720		54.807	32.554	39.778		41.19
869		LEU .			55.348	31.681	38.652		33.86
870	CD2	LEU .			54.125	31.703	40.866		35.22
871	С		A 720		56.796	34.940	42.127		34.33
872	0		A 720		56.915	9 - 1	43.175		33.94
873			A 721		57.633	35.906	41.741		35.51
874		-	A 721		58.698		42.637		37.80
875	CB	ARG	A 721		59.987	36.862	42.044	1.00	38.19
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. А	В	C	D	E				F		G			H	I		J .
876	ĊĠ	ARG	7\	721			60	314	20	.329		12	432	 1 .00	.4.2	1 E
877	CD	ARG		-				699		.652			075	1.00		
878	NE	ARG						671		.968			738	1.00		
879	CZ	ARG			:			115		.223				1.00		
880	NH1	ARG				4.		690					005			
881	NH2	ARG						011		.297			760	1.00		
882	C	ARG						073		.426			507	1.00		-
883	0 .	ARG						397		.904			840	1.00		
884	N	GLY						028		.678			635	1.00		
885	CA ·	GLY						397		.422			757	1.00		
886	CA	GLY			•			861		.381			691	1.00		
887	0	GLY						178		.333			854	1.00		
888	N			723				965		.546			211	1.00		
889	CA			·723				543		.518			137	1.00		
890	CB	ILE						772		.400			387	1.00		
891	CG1	ILE						614		.088			763	1.00		
892		ILE						890		.311			667	1.00		
893	CG2	ILE						270		.347			367	1.00		
894	C	ILE						682		.939			875	1.00		
895 895	0	ILE						643		.733			086	1.00		
896	Ŋ.	ALA						673		.526			105	1.00		
897	CA	AĻĄ						762		.758			736	1.00		
898	CB	ALA						778		. 564			694	1.00		
899	C	ALA						469		.553			912	1.00		
900	0	ALA						762		.063			021			
901	N	ALA						746		.770			606	1.00		
902	CA	ALA						310		.650						
903	CB	ALA				:		.330		.044			550 843	1.00		
904	C			725				.500		.648			943	1.00		
905	0	ALA						049		.269				1.00		
906	N	GLY				•		186		.806			778	1.00		
907	CA	GLY						280		.858			888	1.00		
908	C			726				416		.599			565	1.00		
909	0	GLY				,		515		.595			766	1.00	37.	
910	N			727				508		.533			825	1.00	33.	
911	CA	MET						597		.296			482	1.00	36.	
912	СВ			727				397		.063			534	1.00	38.	,
913	CG	MET						028		.722			128		35.	
914	SD			727				739		.892			569	1.00		
915	CE			727				924		.327			256	1.00		
916	C	MET						004		.177			095	1.00		
917	0	MET						132		.402	-		994	1.00		
918	N			728				049		.876			607	1.00		
919	CA	ĻYS						369		.753			222	1.00		
920	CB	LYS						552		,367			426	 1.00		
921		LYS			•			851		.461			374	1.00		
922	CD			728				269		.813			788	1.00		
923	CE			728				367		.940			974	1.00		
924	NZ	LYS		•				965		.765			965	1.00		
925	C			728				220		.506			629	1.00		
926		LYS						732		.080				1.00		
927	N			729				566		.633		,	588	1.00		
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A.	В	C	D,	E		F	G	H	I	J
928	CĄ	TYR	Α	729		59.283	36.265	54.861	1.00	40.26
929	ÇB ·	TYR	A	729		58.511	37.417	54.525	1.00	36.34
930	CG	TYR				58.276	38.219	55.647	1.00	43.34
931	CD1	TYR	A	729		59.290	39.022	56.234	1.00	41.12
932	CE1	TYR	Α	729		58.907	39.900	57.404	1.00	41.14
933	CZ	TYR	Α	729		57.600	39.837	57.863	1.00	41.39
934	OH	TYR	Α	729		56.977	40.579	58.883	1.00	40.30
935	CE2	TYR	Α	729	•	56.672	38,976	57.197	1.00	40.74
936	CD2	TYR	Α	729		56.985	38.255	56.187	1.00	36.09
937	C	TYR	Α	729		58.534	35.355	55.862	1.00	42.10
938	. 0	TYR	Α	729		58.996	35.098	57.035	1.00	41.89
939	N	LEU	Α	730		57.379	34.814	55.422	1.00	42.02
940	CA	LEU	Ą	730		56.704	33.992	56.335	1.00	39.74
941	CB	LEU	A	730		55.411	33.422	55.779	1.00	38.11
942	CG	LEU	Α	730		54.356	34.521	55.426		39.93
943	CD1	ĽĔŲ				53.208	33.851	54.731		30.48
944	CD2	LEU	Α	730,		53.843	35.522	56.628		36.84
945	C_{1}			730		57.615	32.961	56.868	1.00	
946	0 ,			730		57.590	32.614	58,097		44.06
947	N	ALA				58.379	32.366	56.000		41.66
948	ÇA	ALA		,		59.128	31.219	56.482		43.27
949	CB			731		59.665	30.304	55.365		42.98
950	C	ALA			•	60.252	31.695	57.426		43.66
951	Ο,			731		60.645	31.018	58.306	-	44.04
952		ASN				60.709	32.885			44.35
953	CA			732		61.713	33.276	58.220		46.81
954	CB			732		62.560	34.350	57.600		43.35
955	CG			732		63.616	33.729	56.588		48.96
956		ASN				63.954	32.507	56.609		49.17
957	ND2	ASN				64.077	34.565	55.670	1.00	
958 959	C O			732		61.050	33.532	59.645		47.03 47.94
960	N	MET		732 733		61.593 59.861	33.105 34.149	60.645 59.686	1.00	
961	CA			733		59.083		60.880		45.27
962	CB	MET		733	•	57.872				43.96
963	CG	MET		733		58.018	36.674	60.281	1.00	
964	SD	MET		733		59.136	37.666	61.268	1.00	
965	CE	MET		733		58.421	37.372	62.740		52.36
966	C.			733		58.590	33.013	61.346		45.93
967				733		57.762	32.977	62.179		46.67
968		ASN				59.121	31.890	60.885		46.78
969	CA			734		58.546	30.632	61.341		47.20
970	СВ			734			30.384	62.828		50.07
971	ÇĠ			734		60.243		63.145		56.81
972		ASN				60.886	30.656	64.048		57.16
973	ND2			734	*	60.803	29.077	62.372		59.81
974	C			734	· . · · · .	57.069	30.458	61.090		45.73
975	0			734		56.373	29.743	61.797		43.13
976	Ń	TYR	Α	735		56.542	31.043	60.042		44.71
977	CA			735	*-	55,107	30.822	60.011	* *	43.29
978	CB			735		54.443	32.126	59.921		42.22
979	CG	TYR	Ą	735		53.029	32.009	59.724	1.00	41.13

A .	В	C	D	E			F	Ģ	Н	Ĭ.	J
980	CD1	TYR	Α	735			52.152	32.131	60.814	1.00	40.42
981	CE1	TYR		735			50.811		60.664		47.06
982	CZ	TYR		735		٠.	50.271	31.907	59.374	1.00	
983	ОН	TYR		735			48.915	31.764	59.227	-	46.64
984	7	TYR		735			51.155				47.89
985	CD2	TYR					52.528	31.829	58.447		42.90
986	C			73.5			54.792	29.913	58.861		41.63
987	0	TYR				_	55.164	30.186	57.742		42.29
988	N			736			54.158		59.140	1.00	
989		VAL							58.084		39.18
990	СВ	VAL		736			53.963	26.643	58.559		38.60
991		VAL		736			53.334	the state of the s	57.440		44.99
992		VAL						26.273	59.020		41.99
993	C	VAL		736	:	,	52.508	28.121	57.602	1.00	
994	0	VAL					51.554	27.827	58.342		37.18
995		HIS		737			52.358	28.570	56.348		38.45
996		HIS					51.076	29.014	55.969		
997	CB	HIS					51.078	29.539	54.599		38.83
998	CG	HIS					50.007		54.135		40.55
999 999		HIS			*			30.193		1.00	
1000		HIS					48.855		53.856		35.99
						,	47.910	30.315	53.492		39.74
1001		HIS						31.563		1.00	
1002		HIS		737	,			31.497			31.88
1003	С	HIS		737		•	the state of the s	28.008	55.933		41.07
1004	0	HIS			٠		48.797		56.357	1.00	
1005	N	ARG					50.376	26.934	55.306	1.00	
1006	CA	ARG					49.618	25.687	55 197	1.00	40.70
1007	CB			738					56.513	1.00	
1008	CG	ARG			,	٠.	49.697		57.725	1.00	
1009	CD	ARG					48.687				53.31
1010	NE	ARG					49.009	23.892	59.954		67.74
1011		ARG		738			48.085	23.420			
1012		ARG			٠		46.820	23.728		1.00	
1013	NH2	ARG				•	48.410	22.631	61.865	1.00	
1014	C .	ARG		738			48.515	25.670	54.118	1.00	38.77
1015	0	ARG					47.921	24.641	53.870	1.00	38.45
1016	N	ASP					48.177	26.788	53.516		36.53
1017	CA	ASP		739			47.072	26.753	52.631	1.00	36.55
1018	CB	ASP					45.883	27.404	53.377		39.05
1019	CG	ASP					44.538	27.308	52.614		42.96
	OD1							28.312	52.665	1.00	43.61
1021		ASP							52.038	1.00	39.35
1022	С			739			47.535	27.617	51.504	1.00	39.35 36.75 36.19
1023	0	ASP	A	.739			40.///	28.532	50.983		
1024	N			740			48.780	27.439	51.069		33.43
1025	CA	LEU					49.061	28.504	50.134		33.57
1026	CB	LEU				-	50.481	28.864	50.075		33.24
1027	CG	LEU					50.940	29.335			31.68
1028		LEU			•	•		30.966	48.641	1.00	25.60
1029	CD2	LEU	А	740		٠		28.912	48.706		23.37
1030	C	LEU	Α	740					48.796	1.00	33.56
1031	0	LEU	A	740		•	48.501	26.963	48.357	1.00	31.12
								4			*

Α	В	C :	D	E		F	G	Н	Ĭ.	J
1032	N.	ALA	Δ	741		47.907	29.154	48.172	1 00	32.21
1032	CA			741		47.206	28.832	46.941		31.18
1034	CB			741		45.926	27,914	47.257		29.26
1035	C	ALA				46.846		46.143		29.34
1036	.0	ALA		741		46.668	31.011	46.680		33.20
1037	N			742		46.670	29.881	44.843		30.74
1038	CA			742			31.125	44.116		30.53
1039	CB'			742		46.415	30.932	42.505		29.25
	· C			742	4.7	-	31.834	44.608	1.00	29.77
	0			742		45.243	33.003	44.528		31.53
1042	N			743		44.245	31.119	44.944	1.00	30.98
1043	CA			743		43.077			1.00	34.86
1044	СВ			743	. •	41.863	30.923	45.700		34.10
1045	CG .			743		42.121		46.920	1.00	34.44
1046	CD	ARG	Α	743		41.108	28.958	47.187	1.00	39.03
1047	NE	ARG	Ą	743		41.222	28.546	48.614	1.00	45.39
1048	CZ	ARG	Α	7.43		41.915	27.457	49.044	1.00	48.15
1049	NH1	ARG	Α	743		42.514	26.617	48.179	1.00	45.40
1050	NH2	ARĠ	Ą	743		42.006	27.199	50.343	1.00	47.01
1051	С	ARG	Α	743		43.400	32.651	46.746	1.00	35.27
1052	0	ARG	Α	743		42.567	33.390	47.192	1.00	35.06
1053	Ŋ	ASN	Α	744		44,557	32.422	47.395	1.00	34.09
1054	CA	ASN	Ą	744	,	44.801	33.215	48.540	1.00	33.38
1055	CB	ASN	Α	744		45.131	32.369	49.740	1.00	37.53
1056	CG.			744	•	43.885	31.484	50.204	1.00	39.21
1057	OD1			744			. 31.939	50.226	1.00	42.62
1058	ND2	ASN				44.146		50.555		40.51
1059	C			744		45.837		48.356	1.00	33.36
1060	O			7.4.4		46.457	34.589	49.341	1.00	35.07
1061	N	ILE				46.006	34.705	47.117		30.57
1062	CA			745		46.897	35.733		1.00	28.67
1063	CB	ILE		745		47.832	35.223	45.714	1.00	30.71
1064	CG1			745		48.559	33.935	46.089	1.00	35.04
1065	CD1			745	- ,	49.267	33.990	47.383	1.00	35.54
1066	CG2	ILE		745 745		48.729		45.150	1.00	24.18
1067	C							46.288	1.00	29.43
1068	N O			745 746		45.130 46.311		45.501 46.582	1.00	31.60
1069					-	45.533	39.043	•.	1.00	27.98
1070 1071	CA CB			746		45.083	39.043	46.041 47.195		30.08
1071	ÇG			746		43.629	39.785	47.193		33.99
1073				746		43.198	38,419	47.277		41.53
1074		LEU				43.681	· ·			
1075	C-			746	•	46.416	39.870	45.214		31.34
1076	0			746		47.672				33.08
1077	N			747		45.863	40.732	44.393		32.95
1078	CA			747		46.775	41.316	43.368		33.35
1079	CB	VAL		747		46.535	40.592	41.936		34.25
1080		VAL				47.470	41.171	40.731		32.32
1081		VAL				46.731	39.130	42.052		28.68
1082	С			747		46.354		43.243		35.15
1083						45.192		43.182		36.61
		. :						- + -		

Α	В	C	D	, E		F	G	H	I J
1084	N	ASŅ	Α	748		47.265	43.612	43.005	1.00 38.24
1085	CA			748		46.877	45.028		1.00 38.34
1086	СВ			748		47.567	45.802	44.082	1.00 36.64
1087	CG			748		49.029	46.025	43.866	1.00 41.61
1088		ASN			4	49.862	46.322	44.892	1.00 43.62
1089	ND2	ASN	Α	748	1. 1.4	49.440	45.937	42.561	1.00 30.49
1090	C			748		47.108	45.643		1.00 39.45
1091	0 2			748		47.639	44.987		
1092	N			749		46.695	46.895		1.00 42.73
1093	CA			749		46.786	47.496		
1094	СВ			749		46.385	48.978		
1095	OG			749		45.668	49.315	41.225	1.00 54.36
1096	C			749		48.144	47.270	39.473	1.00 47.52
1097	Ö			749			47.006	38.275	1.00 50.51
1098	N			750		49.269		40.208	
1099	CA			750		50.564	47.075	39.586	
1100	СВ			750		51.653			
1101	CG			750		51.353			
1102	OD1	ASN					49.871		
1103		ASN					50.090		
1104	С			750		50.867	45.596	39.508	1.00 45.29
1105	0			750		51.983	45.229	39.197	
1106	N			751		49.900	44.715		1.00 43.51
1107	CA			751		50.329			1.00 41.03
1108	СВ			751		50.906	43.089	38.217	
1109	CG			751		50.061	43.748		1.00 41.64
1110		LEU				50.758		35.751	1.00 38.27
1111	CD2			751		48.627			1.00 28.14
1112	C			751		51.261			
1113	0			751	. •	51.616	41.503		· ·
1114	N			752		51.532		41.722	1.00 38.48
1115	CA	VAL	Α	752		52.201	42.927	42.911	1.00 37.62
1116	CB	VAL	Α	752		52.407	44.027		1.00 41.07
1117	CG1	VAL	Α	752	-	52.935	43.433	45.248	1.00 31.93
1118	CG2	VAL	·A	7.52		53.374	45.187	43.434	1.00 39.70
1119	С	VAL	Α	752		51.212	41.969	43.535	1.00 36.23
1120	0	VAL	Α	752		50.109	42.327	43.656	1.00 37.11
1121	N	CYS	Α	753		51.624	40.762		1.00 33.42
1122	CA	CYS	Α	753		50.883	39.701	44.373	1.00 32.01
1123	CB	CYS	A	753			38.393	43.688	1.00 27.84
1124	SG	CYS	Ą	753		50.701	38.335	42.039	1.00 33.28
1125	C	CYS	Α	753		51.225	39.605	45.855	1.00 32.33
1126	0	CYS	A	753		52.398	39.547	46.172	1.00 32.32
1127	N	LYS	Α	754		50.219	39.528	46.741	1.00 32.94
1128	CA			754		50.507	39.386		
1129				754		50.162		48.875	1.00 33.13
1130	CG			754		50.605	41.963	48.135	1.00 29.06
1131	CD			754		50.285	43.144	49.026	1.00 35.71
1132	CE			754		50.643	44.415	48.261	1.00 35.80
1133	NZ			754		51.568	45.193	49.061	1.00 43.38
	С			754		49.841		48.816	1.00 32.31
1135	0	ĻYS	A	754		48.692	37.924	48.506	1.00 34.15

A	В	С	Ď	E	٠.		F	G	$t \sim H_{\rm bol}$	I	J
1136	N	VAL	Ā	755			50.518	37.575	49.758	1:00	31.55
	CA	JAV					49.978		50.386		33.31
1138	CB	VAL					51.025	35.620	51.198		30.88
1139		VAL					50.350	34.441	51.795		32.21
		VAL					52.084	34.964	50.251		34.24
1141	С			755			48.926	37.022	51.377		35.40
1142	0	VAL					49.168		52.005		32.54
1143.	N	SER	Α	756	1.		47.774		51.457		38.43
1144	CA	SER	Α	756		1	46.644	36.872	52.159		43.72
1145	CB	SER	Α	756			45.634	37.437	51.159	1.00	44.86
1146	, OG	SER	Α	756			44.645	38.014	52.000	1.00	54.93
1147	C	SER	Α	756			46.074	35.651	52.814	1.00	43.72
1148	0	SER	A	756			46.719	34.651	52.765	1.00	43.99
1149	N ·	ASP	A	757	**		44.911		53.430	1.00	43.35
1150	CA	ASP	Α	757			44.410		54.043		45.65
1151	СЪ			757		•	44.275	33.425	53.015		46.32
1152	CG	•		757			43.724	32.150	53.635		52.75
1153		ASP					44.124	30,984			56.00
1154	OD2	ASP					42.867		54.510	1.00	
1155	Ċ ·			757		-	45.196		55.204		46.33
1156	0			757			45.641		55.119		45.10
1157	N			758			45.277		56.314		47.63
1158	CA			758			46.037		57.464		49.68
1159	CB.			758			46.847		58.006		44.29
1160		PHE					47.817		57.094		42.30
1161	CD1			758			47.593	36.864	56.368		42.22
1162		PHE				•	48.598		55.442		39.71
	CZ			758			49.746	36.532	55.255		36.81
1164		PHE					49.877	35.352	55.943	1.00	
1165 1166	CD2 C			758 758			48.975	34.983 33.723	56.849	1.00	
1167	0	PHE		758			44.974 44.200		58.453 58.838	1.00	
1168	N	GLY		759			44.861		58.977		57.15 55.94
1169	CA	GLY		759			43.688				61.61
1170	C		**	759			**	31.292	60.339		65.29
1171	0			759			42.694	30.466	59.606		
1172	N			760			43.669			1.00	
1173	CA			760			43.342		62.553	1.00	
1174	СВ			760			42.221	30.592	63.474		72.37
1175	C			760		-	43.001		62.018		70.84
1176	0			760			43.734		62.273		72.10
1177	N			778			38.912	22.109	55.182		61.96
1178	CA			778			39.123	23.434	- 4 4 m i	1.00	
1179	СВ			778		,	39.109		55.464	1.00	
1180	CG			778			38.190		55.100		65.24
	CD			778			36.788		55.739		72.35
1182	CE	LYS					35.799		55.111	-	76.05
1183	NZ	LYS	Α	778			34.359	26.088	55.161	1.00	78.40
1184	C	LYS	Α	778	•		40.461	23.466	53.662	1.00	59.65
1185	0	LYS	Α	778			40.624	24.295	52.798	1.00	60.18
1186	N	ILE	A	779					53.969		56.99
1187	CA	ΪĻΕ	Α	779			42.634	22.716	53.087	1.00	54,46

A	В	С	D	E		F	G .	Н	I	J
1188	СВ	ILE	A	779		44.003	22.769	53.748	1.00	54.83
1189		ILE				44.106	23.930	54.709		
1190	CD1			779		45.315	23.813	55.674	1.00	
1191	CG2	ILĘ				45.029	22.969	52.634	1.00	
1192	C			779		42.605	21.521	52.188	1.00	
1193	Ö			779		42.668	20.418	-52.583	1.00	
1194	N			780		42.595	21.796	50.931	1.00	
1195	CA	PRO	Α	780		42.509	20.747	49.903		50.51
1196	CB	PRO	Α	780		42.343	21.559	48.651		51.35
1197	CG	PRO	Α	780		43.260	22.689	48.938	1.00	51.32
1198	CD	PRO	Α	780		42.732	23.136	50.382	1.00	49.94
1199	Ċ	PRO	Α	780		43.749	19.936	49.777	1.00	49.64
1200	0			780		44.947	20.334	49.770		49.57
1201	N			781		43.459		49.654		50.09
1202	CA			781		44.559		49.516		48.15
1203	CB			781.		43.970		•		48.98
1204	CG1			781		43.156		50.458		49.76
	CD1			781	* * .	,	14.976	51.333		45.76
1206	CG2			781		45.125	15.350 18.088	48.961		49.83
1207				781	:				1.00	48.04
	0			781		46.769	17.996			48.83
1209	N			782	٠.		18.437	47.261		47.13
1210	CA			782		45.802	18.586	46.083		45.63
1211	CB			782		45.053	18.378	44.769		47.26
1212	CG			:782		44.023	19.394	44.396		44.31
1213	CD			782		42.767	18.675	44.519		46.69
1214 1215	NE CZ			782		42.141	18.708			56.04
1216	NH1			782 782		41.462 40.977	17.713 17.877	42.740 41.506		56.10 56.62
1217	NH2			782	*	41.306	16.594			52.79
1218	C			782		46.663	19.814	45.954		44.90
1219	0			7,82		47.349	19.960	44.928		43.83
1220	N			783		46.618	20.701			42.72
1221	CA			783		47.551	21.768			39.98
1222	CB			783		46.868	23.004			37.95
1223	CG			783		46.479	23.843	46.300		35.96
1224	CD1						24.953	45.829		37.75
1225	NE1	TRP	Α	783	•	46.442	25.528	44.784	1.00	33.74
1226	CE2	TRP	Α	783		45.232	24.838			
1227	CD2	TRP	Α	783			23.816	45.630	1.00	27.27
1228	CE3	TRP	Α	783	•	44.158	22.941	45.665	1.00	39.26
1229		TRP					23.079		1.00	36.66
1230	CH2	TRP	Α	783		43.148	24.149	43.847	1.00	39.76
1231		TRP				44.221	25.011	43.792	1.00	24.85
1232	C			783		48.580	21.312	48.036	- 1	38.70
1233	, 0			783		49.540	21.988	48.357		35.32
1234	N			784		48.408	20.111	48.524		40.61
1235	CA			784	* . *	49.172	19.762	49.727		41.41
1236	CB			784		48.221	19.287	50.845		43.19
1237		THR						51.014		45.29
1238		THR				48.958				34.46
1239	C	THK	А	784		50.198	18.707	49.543	1.00	42.11

A	В	C	D	E		F	Ģ	Н	Ţ	J
1240	0	THR	Α	784		49.985	17.747	48.813	1.00	42.17
1241,	N	ALA				51.327	18.906	50.196		42.96
1242	CA			785		52.418	17.963	50.141		44:73
1243	СВ			785		53.572	18.448	50.832	1.00	
1244	C	-		785		52.037	10 (27)	50.734		47.53
1245	0			785		51.473	16.538	51.822	1.00	
	N	PRO		7.86		52.460	15.590	50.029		48.19
1247	ÇA:			786	•	52.143		50.417		50.36
1248	СВ			786		53.099	13.338	49.569	1.00	
1249	ÇG			786		53.928	14.299	48.752	1,00	
1250	CD	PRO		786		53.440	15.726	48.965		46.85
1251		PRO		786	•	52.522	14.054	51.936		52.21
1252	0			786		51.679	13.490	52.651		51.09
1253	N	GLU		787		53.714	14.492	52.403		53.11
1254	CA	GLU				53.970		53.884	1.00	
1255	CB	GLÙ		787		55.401	14.738	54.382		54.09
1256	CG	GLU		787		55.710	16.248	54.318		55.91
1257	CD	GLU		787		56.214	16.661	52.939		48.91
1258		GLU		787		56.021	15.847	52.033		44.65
1259		GLU		787	1.	56.840	17.727	52.812		45.31
1260	C	GLU		787	. :	52.848	15.012	54.726		55.92
1261	0			787		52.130	14.368	55.542	1.00	
1262	N			788		52.713	16.318	54.544		54.35
1263	CA			788		51.644	16.988	55.186	1.00	
1264		ALA				51.446	18.323	54.578		53.00
1265	, C	ALA				50.361	16.145	55.138		54.26
1266	0			788		49.670		56.112		54.80
1267	N			789		50.025		54.028		56.51
1268	CA			789		48.800	14.678	54.021		57.58
	CB	ILE		789			14.228			57.54
1270		ILE				47.712	15.332	51.828		59.40
1271	CD1	ILE			:	47.797	15.085	50.262		54.27
1272	CG2	ILE		789		47.309	13.160	52.772		60.10
1273	C			789		48.914		54.862		58.22
1274		ILE				48.062	13.049	55.692		57.15
1275	N .	SER		790		49.990	12.659	54.690		59.69
1276	CA	SER		790		49.932		55.316		61.39
1277	СВ	SER	Α			50.549	10.325			61.41
1278	OG -			790		51.936	10.499	54.315		61.74
1279	C			790		50.226	11.364	56.846		63.87
1280	0			790		49.485	10.710	57.593		64.38
1281	N	TYR				51.144	12.202	57.303		63.52
1282	CA	TYR				51.439	12.287	58.665		66.15
1283	CB	TYR				52.945	12.283	58.781		68.10
1284	CG	TYR				53.565	11.076	58.118		72.28
1285	CD1			791		54.150	11.173	56.854		75.63
1286	CE1	TYR				54.755		56.241		78.33
1287	CZ	TYR					8.841	56.900		79.84
1288	ОН	TYR	A	791		55.332	7.732	56.302		78.87
1289	CE2	TYR			•	54.210	8.722	58.176		79.39
1290		TYR				53.607	9.844	58.776		76.45
1291	C	TYR				50.974	13.612			66.97

Α	В	,, C	D	Ė			F	G	Ĥ I	, I	J
1292	.0	TYR	Α	791			51.182	13.912	60.434	1.00	66.84
1293	N	ARG	Α	792		٠,	50.369	14.432	58.399		66.87
1294	CA	ARĢ		792			49.970	15.760	58.851	1.00	67.30
1295	CB	ARG	Α	792			48.869	15.753	59.940	,1.00	68.23
1296	CG	ARG	Α	792		٠.	47.463	15.375	59.359	1.00	74.13
1297	CD	ARG	Α	792			46.869	14.030	59.780	1.00	82.23
1298	NE	ARG	À	792			45.886	14.125	60.886		89.59
1299	CZ	ARG		792			45.202	13.080	61.426		92.80
1300 .	NH1	ARG		792			45.357	11.829	60.958		93.06
1301	NH2	ARG		792		٠.	44.347	13.285	62.440		92.12
1302	Ç	ARG		792			51.197	16.520	59.320		65.45
1303	O.			792			51.139		60.315		65.77
***	N	ALA		793	```		52.306	16.318	58.611		63.00
1305	CA	ALA		793		÷	53.519	17.103	58.883		61.10
1306	СВ			793			54.867		58.776	1.00	60.85
1307	C	ALA		793			53.648		58.049		59.08
1308	O.	ALA		793			54.293	18.378	56.975	1.00	
1309	N	PHE		794			53.105	19.517	58.578	1.00	
1310	CA	PHE		794			53.275	20.777	57.901	1.00	
1311	CB	PHE		794		•		21.718	58.149	1.00	
1312	CG	PHE		794			50.889	21.224	57.553	1.00	53.79
1313	ÇD1	PHE		794			50.266 49.177	20.110 19.633	58.096	1.00	50.68
1314 1315	CE1	PHE		794					57.537		51.95
	CZ			794 794					56.394	1.00	57.08
1316 1317	CE2 CD2	PHE		794		, :	49.263	21.310 21.819	55.814	1.00	48.15
1317	C DS	PHE		794			54.497	21.513	56.416 58.175	1.00	51.41 51.20
1319	O			794		•	54.691	21.913	59.279	1.00	51.64
1320	N	THR		795				21.321	57.116	1.00	49.90
1321	CA -	THR		795			56.318	22.788	57.254	1.00	46.99
1322	CB	THR		795				22.091	57.445		49.02
1323	OG1	THR		795			58.072	21.514	56.183	1.00	49.65
1324	CG2	THR		795			57.447	20.906	58.372	1.00	48.02
1325	С	THR		795			56.471	23.771	56.117	1.00	
1326	Ō	THR		795			55.655	23.860	55.164		43.69
1327	N	SER	Á	796			57.534	24.550	56.249	1.00	
1328	CA	SER	Α	796		. *		25.476	55.208	1.00	
1329	CB	SER	Α	796			58.981	26.331	55.547	1.00	39.66
1330	OG	SER	Α	796			58.361	27.301	56.341	1.00	44.72
1331	Ç	SER	Α	796			58.049	24.704	53.900	1.00	41.56
1332	0	SER	Α	796			57.696	25.199	52.871	1.00	41.54
1333	N	ΑĻΑ					58.524	23.473	53.999	1.00	40.13
1334	CA.	ALA					58.846	22.725	52.848	1.00	42.53
1335	СВ	ΑĻΑ	Α	797			59.884	21.556	53.214		40.83
1336	C			797			57.521	22.169	52.280		42.33
1337	0	ALA		797			57.431	21.788	51.119		42.26
1338	N	SER		798			56.545	22.072	53.157		40.76
1339	CA	SER		798			55.253	21.629	52.760		40.11
1340	СВ	SER		798			54.431		54.027		41.27
1341	OG	SER		798		•	53.766	201389	53.989		46.94
1342	C			798			54.772	22.848		•	39.12
1343	Ò	SER	Α	798			54.056	22.735	51.062	T.00	39.97

Α	В	C	D	E			F	G	•	Н	Į			Ţ
1344	N	ASP	Α	799			55.130	24.0	50 5	2.406	1.	00	35.	77
1345	CA	ASP					54.498	25.1		1.717				
1346	CB	ASP					54.780			2.486			33.	
1347	CG -	ASP		799			53.791	26.72		3.664			34.	
1348	OD1	ASP		799			52.668	26.1		3.890			36.	
1349		ASP		799		-	54.068	27.5		4.447			37.	
1350	C	ASP		799	-		55.132			0.316		00		
1351	0	ASP		799			54.570	25.8		9.348			37.	
1352	N	VAL		800			56.387	24.8		0.252			34.	
1353	CA	VAL	Α				57.112.			9.039			34.	
1354	ĊB			800			58.663	24.6		9.163		•		63
1355		VAL					59.248	24.4		7.761			30.	
1356	CG2	VAL	Α	800		•	59.460	25.8		9.911			29.	
1357	С	VAL		4		. •	56.427	24.0		8.023			34.	
1358	0	VAL					56.251	24.4		6.945			36.	
1359	N	TRP				٠.	56.055	22.8		8.359			32.	
1360	CA	TRP		3	٠,		55.170	22.0		7.475			34.	
1361	СВ	TRP					54.679	20.7		8.117			35.	
1362	CG			801		1	53.843	19.9		7.285			33.	
1363	CD1	TRP					52.561	20.1		6.984				49
1364	NE1	TRP		, '			52.070	19.0		6.260			32.	
1365	CE2	TRP					53.073	18.1		6.097			33.	
1366		TRP					54.183	18.6		6.756		00		
1367	CE3	TRP					55.320	17.8		6.841				
1368		TRP					55.378			6.143			33.	
1369	CH2	TRP					54.264	16.1		5.448			37.	
1370		TRP	Α	801			53.088	16.8		5.430			42.	
1371	С	TRP					53.951	22.7		7.036			34.	
1372	0			801			53.531	22.6		5.934			38,	
1373	N	SER	Α	802			53.355	23.5		7.890			35.	
1374	ĊA	SER	Α	802			52.126	24.2	74 : 4	7.503	1.	0.0	31.	. 87
1375	СB	SER	Α	802			51.515	24.9	63 4	8.746	1.	00	33.	54
1376	QG	SER	Α	802			50.899	23.8	99 4	9.521	1.	00	30.	64
1377	Ç .	ŞER	Α	802			52.429	25.3	04 4	6.557	1.	00	31.	. 93
1378	0	SER	Α	802			51.690	25.5	09.4	5.608	11.	00	34.	. 62
1379	Ņ	PHE	Α	803			53,536	26.0	0,7 4	6.779	1.	00	30.	. 27
1380	CA	PHE	Α	803			53.933	27.1	01 4	5.905	1.	00	29.	. 38
1381	CВ	PHE	Α	803			55.219	27.6	53 4	6.473	1.	00	29.	. 35
1382	CG	PHE	Α	803			55.817	28.6	71 4	5.639	1.	00	32.	. 84
1383	CD1	PHE	Α	803			56.825	28.3	28 4	4.672	1.	00	30.	.14
1384	CE1	PHE	Α	803			57.313	29.2		3.909	1.	0,0	28.	45
1385	CZ	PHE	Α	803			56.814	30.5	47 4	3.991	1.	00	26.	.76
1386	CE2	PHE	Α	803			55.846	30.8	77 4	4.932	1.	00	30.	61
1387	CD2	PHE	Α	803			55.372	29.9		5.745		00	26.	. 06
1388	C			803			54.263	26.6		4.484			30.	
1389	0			803			54.033	27.2		3.432			27.	
1390	N			804		•	54.777	25.4		4.421			32.	
1391		GLY					54.953			3.033			33.	
		GLY					53.552	24.7		2.358			33.	
1393		GLY					53,373			1.182			31.	
1394	N			805			52.558			3.119			33.	
1395	CA	İĻĒ	A	805			51.181	24.1	92 _. 4	2.565	1.	0 Ó	33.	.26

А	B	С	D	Ē			F	G	Н	I	J.
1396	СВ	IĻĘ	Α	805			50.229	23.528	43.503	1.00	33.65
1397	CG1	ILE	Α	805			50.811	22.097	43.852		37.12
1398	CD1	ILE	A	805			50.975	21.032	42.698		32.87
1399	CG2	ILE	Α	805			48.823	23.678	43.010	1.00	32.49
1400	С	ILE	Α	805			50.696	25.579	42.206		31.48
1401	0	ILE					50.103	25.710	41.183		35.71
1402	N	VAL	A	806			51.019	26.638	42.935	1.00	28.75
1403	CA	VAL		806			50.549	27.991	42.575	1.00	25.41
1404	CB	VAL	A	806		7	50.961		43.621		25.04
1405	CG1	VAL	Α	806				30.522	43.191	1.00	21.16
1406	CG2	VAL	Α	806			50.157		45.007	1.00	23.21
1407	C	VAL	Α	806	5.1	- "	51.341	28.242	41.357	1.00	
1408	0 .	VAL	Α	806			50.912	28.993	40.455	1.00	29.17
1409	N	MET	Α	807			52.538	27.649		1.00	30.71
1410	CA	MET	Α	807	ï		53.344	27.966	40.092	1.00	31.44
1411	СВ	MET	Ą	807			54.785	27.399	40.149	1.00	32.92
1412	CG	MET				* .	55.817	28.157	.41.066	1.00	31.62
1413	SD	MET	Α	807			57.439	27.395	40.955	1.00	39.41
1414	CE	MET	Α	807	•	٠,.	57.070	26.142	40.672	1.00	45.05
1415	Ç	${\tt MET}$	Α	807			52.606	27.493	38.830	1.00	31.38
1416	0	MET	Α	807			52.491	28.212	37.876	1.00	33.09
1417	N	TRP	Α	808		1	51.936	26.352	38.875	1.00	31.98
1418	CA	TRP	Α	808			51.347	25.777	37.672	1.00	32.34
1419	СВ	TRP	Α	808			51.102	24.315	38.067	1.00	33.08
1420	CG	TRP	Α	808			50.501	23.517	37.005	1.00	36.11
1421	CD1	TRP	Α	808			51.163	22.792	36.077	1.00	36.58
1422	NE1	TRP	Α	808			50.257	22.139	35.281	1.00	38.43
1423	CE2	TRP	Α	808-			49.005	22.468	35.660	1.00	33.35
1424	CD2	TRP		808			49.123	23.335	36.754	1.00	31.70
1425	CE3	TRP		808			47.968	23.831	37.345	1.00	35.04
1426	CZ3	TRP		808			46.744	23.452	36.868		36.54
1427	CH2	TRP		808	٠.	-	46.638	22.571		1.00	38.94
1428	CZ2	TŖP		808	4 1		47.760	22.047	35.138	1.00	38.69
1429	C		A	808		*-	50,064	26.516	37.482	1.00	33.39
1430	O			808			49.612	26.851	36.402	1.00	34.70
1431	Ņ			809			49.457	26.832	38.629		33.47
1432	CA			809			48.354	27.714	38.567	1.00	30.38
1433	CB			809	-		47.563	28.010	39.941	1.00	30.54
1434	CG			809			47.069	26.930	40.924		28.60
1435	CD			809			46.429	27.611	42.127		33.46
1436		GLU					45.269	28.166	42.033		31.67
	OE2				-		47.163	27.747	43.156		40.29
1438	C			809			48.610	29.024	37.793		29.74
1439	0			809			47,798	29.552	36.933		30.79
1440	N			810			49.656	29.723	38.167		28.13
1441	CA			810			49.889	31.000	37.520		26.64
1442 1443	CB CC1			810			51.022 51.575	31.716	38.242		26.67
		VAL					50.493	32.853 32.103	37.310 39.725		22.89
1444 1445	CG2 C	VAL		810			50.493	32.103	35.725		27.59 28.59
1445 1446	Ö			810			49.854	31.404			24.03
1447	N			811			51.055	29.682	35.705		30.08
T		rasi i	47	011			ددن.	چ٥٠٠٠	دِن،.دد	1.00	20.00

Α	В	·C	D	E			F	G	Н		I	J
1448	ÇA	мет	Α	811			51.499	29.612	34.33	9	100	31.44
1449	CB			811		•	52.744	28.783	34.20			35.04
1450	CG			811				29.305	35.12			31.45
1451	SD			811		:	54.298		34.72			37.47
1452	CÉ			811			54.782	30.847	33.01			32.94
1453	C	MET			·		50.347	29.060	33.52			34.61
1454	o ·			811			50.403	29.178	32.33			32.60
1455	N			812			49.276		34.13			34.24
1456	CA			812			48.198	28.074	33.24			32.52
1457	CB	THR	Α	812	•		47.466	26.795				34.00
1458	OG1	THR	Α	812		-	47.141	26.876				32.67
1459	CG2	THR	Α	812			48.398	25.639	33.66	2	1.00	30.33
1460	C	THR	Ą	812			47.135	29.096	33.34	1	1.00	31.91
1461	0	THR	A	812			46.025	28.855	32.94	3	1.00	30.76
1462	N	TYR	Α	813,			47.464	30.243	33.83	4	1.00	31.56
1463	CA	TYR	A.	813			46.387	31.261	33.92	9	1.00	31.70
1464	CB	TYR	Α	813			46.014	31.896	32.58	9 .	1.00	29.74
1465	CG	TYR	Α	813			47.044		31.95	8	1.00	30.09
1466	CD1	TYR	Α	813			48.104	32.376	31.11	4	1.00	28.85
1467		TYR					49.010		30.61			29.29
1468	CZ	TYR	Α	813			48.842	34.593	30.91	0	1.00	29.69
1469	OH	TYR	A.	813			49.541	35.655		5 ·	1,00	38.24
1470		TYR					47.824		31.70	8	1.00	31.05
1471	CD2	TYR	Α	813			46.969					29.25
	G.			813			45.134					30.85
1473	0			813			44.083	30.936				30.55
1474	N			814			45.270	30.031	35.75			33.19
	CA			814				29.747.				35.27
1476	C			814	٠.		43.411	28.377				37.11
1477	0			814			42.283		36.93			33.77
1478	N			815			44.027					36.20
1479	CA			815			43.465	26.106	35.68			39.73
1480	CB			815			44.122					39.41
1481	CG			815			43.383					45.14
1482	CD CP1			815	•		41.799	24.015				55.70
1483		GLU					41.019					48.24
1484	OE2 C			815	·		41.307					64.63
1485				815			43.505	25.458	37.13			40.38
	O N	ĢĻU					44,323	25.869				41.33
1487 1488	N CA			816 816			42.636 42.531	24.460	37.43			41.29 42.57
								23.823	38.74			
1489	CB			816			41.035	23.394	38.99			43.10
1490 1491	CG CD			816 816	•		40.769 39.291	21.927 21.462	39.48 39.80			46.76 54.39
1492	NE			816				20.573	40.97			59.04
1492	CZ			816.			39.376	21.041	42.24			63.78
1493		ARG					39.513	20.179	43.23			65.53
1495		ARG					39.304	22.384	42.51			59.05
1496		ARG				•	43.464	22.5644	38.72		1.00	
1497	0			816			43.398	21.857	37.82			42.38
1498	N			817			44.469	22.608	39.59			43.68
1499	CA			817			45.379	21.453	39,67			41.81
	-21		1.1	011			10.01)	د کھنے	55,07	4	±. 00	*** OT

A	В	С	D	E			F	G	Н	I	J
1500	CB	PRO	A	817			46.156	21.699	40.929	1.00	41.78
1501	ĊG .	PRO					46.031	23.202	41.122	1.00	
1502	CD	PRO					44.749	23.678	40.560	1.00	
1503	C	PŖO	Α	817			44.627	20.101	39.695	1.00	
1504	0	PRO	Α	817			43.467	19.877	40.271	1.00	
1505	N	TYR	Α	818			45.189	19.255	38.843	1.00	44.92
1506	CA	TYR	Α	818			44.739	17.910	38.593	1.00	45.34
1507	CB	TYR	Α	818			44.740	17.159	39.884	1.00	43.91
1508	CG	TYR	Α	818			46.093	17.345	40.535	1.00	42.86
1509	CD1	TYR					47.185	16.479	40.253	1.00	38.28
1510	CE1			818			48.459		40.852	1.00	37.76
1511		TYR				٠	48.610	17.633	41.743	1.00	35.89
1512	OH	TYR					49.875	,17.735	42.212	1.00	
1513	CE2	TYR					47.577	18.531	42.049		33.24
1514	CD2			818		•	46.316	18.406	41.423		37.98
1515	C	TYR					43.336	17.995	38.033	1.00	47.01
1516	0	ŢŸŖ					42.518	17.049	38.110	1.00	48.49
1517	N	TRP					43.005	19.164		1.00	
1518	CA			819	•		41.701	19.253	36.867	1.00	50.46
1519	CB	TRP					41.740	18.432	35.528	1.00	48.43
1520	CG			819			42.829	18.844	34.728	1.00	
1521		TRP					42.959	20.031	34.004	1.00	
1522	NE1			819	•		44.228	20.119	33.441	1.00	43.97
1523	CE2	TRP					44.918	18.980	33.793	1.00	
1524	CD2	TRP					44.087	18.187	34.609	1.00	
1525 1526	CE3	TRP TRP					44.579	16.961	35.056	1.00	
1527	CZ3 CH2						45.822 46.585	16.613	34.720	1.00	
1528	CZ2	ŢRP TRP		81 <u>9</u> 819	-		46.157	17.392 18.598	33.912	1.00	42.84
1529	C	TRP					40.157	18.743	33.464 37.751	1.00	45.34 50.78
1530	0			819			40.418	19.134	38.920	1.00	52.87
1531	N	GLU					39.757	17.855	37.170	1.00	53.15
1532	CA	GLU					38.614	17.033	37.170	1.00	54.37
1533	CB	GLU		820			37.449	16.941	36.924	1.00	54.32
1534	ÇG	GLU					36.366	18.002	36.896	1.00	57.57
1535	CD	GLU					36.972	19.390	36.838		61.97
1536	OE1	GLU					36.651	20.232	37.703		63.58
1537	OE2	GLU					37.815	19.635	35.943	1.00	65.58
1538	С	GLU					38.939	15.918	38.502		54.50
1539	0	GLU					38.032	15.090	38.695		56.40
1540	N	LEU	A.	821			40.212	15.698	38.795		55.83
1541	CA	LEU	A	821			40.604	14.432	39.369	1.00	54.87
1542	CB.	LEU	Α	821			42.050	14.101	39.090	1.00	54.66
1543	CG	LEU	Α	821			42.599	13.702	37.713	1.00	55.17
1544	CD1	LEU					44.138	14.023	37.650	1.00	59.74
1545	CD2	ĻEU					42.372	12.223	37.358	1.00	57.81
1546	С	LEU					40.311	14.322	40.862		55.57
1547	Ó	LĘU					40.184	15.328	41.610		52.91
1548	N	SER					40.208	13.053	41.283		55.96
1549	CA	SER					39.800	12.777	42.619	1.00	
1550	CB			822			39.132		42.709	1.00	57.57
1551	OG	SER	A	822			40.163	10.441	42.724	1.00	61.05

Α	. <u>B</u>	С	D	E	·		F	G	Н	I	J
1552	C	SER	Ά	822			41.015	12.742	43.471	1.00	56.82
1553	Ō			822		-	42.111	12.351	43.029	1.00	55.43
1554	N			823			40.752	13.039	44.733	1.00	
1555	CA	ASN					41.802	13.209	45.699	1.00	
1556	СВ			823			41.242	13.615	47.073	1.00	
1557	CG	ASN					40.815	15.094	47.094	1.00	
1558	OD1						41.592	15.963	46.785	1.00	
1559	ND2	ASN					39.582	15.363	47.432	1.00	61.31
1560	· C	ASN	Α	823			42.513	11.941	45.660	1.00	59.12
1561	Ò	ASN	A	823			43.753	11.872	45.759		60.64
1562	N	HIS	Á	824		•	41.733	10.936	45.381	1.00	
1563	CA	HIS	Ą	824			42.274	9.608	45.413	1.00	60.00
1564	СВ	HIS	Α	824			41.115	8.627	45.445	1.00	60.99
1565	CG	HIS	Α	824			41.565	7.246	45.256	1.00	67.03
1566	ND1	HIS	Α	824			42.251	6.566	46.238	1.00	72.16
1567	CE1	HIS	Α	824			42.594	5.370	45.772	1.00	77.00
1568	NE2						42.189	5.271	44.513	1.00	75.73
1569	CD2	\mathtt{HIS}					41.551	6.441	44.161	1.00	74.03
1570	C			824			43.240	9.346	44.223	1.00	58.19
1571	Ó	HIS					44.439	9.014	44.396	1.00	55.80
1572	N			825			42.701	9.531	43.014	1.00	57.37
1573	CA			825			43.514	9.516	41.785	1.00	56.22
1574	CB			825			42.623	10.008	40.632	1.00	57.84
1575				825			41.881	8.907	39.881	1.00	
1576	CD			825			40.412	9.114	39.860	1.00	67.90
1577	OE1			825			39.948	10.076	39.213	1.00	70.44
1578	OE2						39.725	8.297	40.518	1.00	74.63
1579	С			. 825.			44.764	10.399	42.063	1.00	54.94
1580	0	GLU					45.937	9.927		1.00	54.45
1581	N	VAL					44.529	11.648	42.467	1.00	53,85
1582	CA	VAL					45.667	12.540	42.776	1.00	
1583	CB	VAL					45.208	13.870	43.319	1.00	
1584		VAL					46.447	14.871	43.452	1.00	
1585	CG2						44.197	14.432	42.370		51.90
1586	Ç,	VAL					46.759	11.943		1.00	53.42
1587 1588	O N			826 827			47.967			1.00	53.40
_	. CA	MET		827			46.363 47.422	11.447	44.821	1.00	53.41
	CB							10.969		1.00	55.16
1590 1591	CG	MET MET					47.018 45.490	10.882 10.429	47.148 47.445		55.87 60.83
1592	SD	MET				٠.	44.615	10.423	49.114		65.49
1593	CE	MET					46.288	11.405	49.883		54.71
1594	C	MET					48.133	9.757	44.935		54.89
1595	0	MET					49.401	9.704	44.933		55.10
1596	N.	ALA					47.375	8.861	44.295		55.10
1597	CA	ALA					48.085	7.757	43.600		55.33
1598	CB	ALA					47.165	6.654	43.057	1.00	54.77
1599		ALA					49.049	8.267	42.521	1.00	54.77
1600	0	ALA					50.167	7.792	42.403		54.26
1601	N	ALA					48.698	9.315	41.805		55.62
1602	CA	ALA					49.672	9.732	40.804		56.05
1603	СВ	ALA					49.103	10.831	39.898		56.37
				-							

A	В	Ç	·D	Ē	-		F	G	H	I	J´
1604	С.	ALA	A	829			50.966	10.177	41.468	1.00	56.31
1605	0	ALA	Α	829			52.116	9.756	41.108	1.00	56.19
1606	N	ILE	Α	830			50.765	11.020	42.471	1.00	
1607	CA	ILE	Α	830			51.891	11.651	43.112	1.00	56.87
1608	CB	ILE,	Ą	830			51.446	12.581	44.293	1.00	57.35
1609	CG1	ILE	Α	830			50.835	13.861	43.719	1.00	56.71
1610	CD1	ILE	A	830	-		51.574	14.320	42.496	1.00	47.37
1611	CG2	ILE.	Α	830			52.641	12.975	45.149	1.00	52.92
1612	C	ILE	Α	830			52.767	10.611	43.637	1.00	58.16
1613	0	ILE	Ą	830			54.003	10.637	43.431	1.00	58.31
1614	N	ASN	Α	831			52.120	9.692	44.344	1.00	59.54
1615	CA	ASN					52.883	8.672	45.016	1.00	60.79
1616	CB	ASN				-	52.033	7.966		1.00	62.19
1617	CG	ASN					51.972	8,768	47.324		65.87
1618	OD1			831			52.993	9.400	47.727		66.49
1619	ND2	ASN					50.781	8.826	47.934		68.01
1620	Ç	ASN					53.492	7.757	44.044		59.66
1621	0			831			54.558	7.248	44.274		58.77
1622	N			832			52.860	7.609	42.896	1.00	59.28
1623	CA			832			53.530	6.790	41.905		60.01.
1624	CB	ASP					52.494	6.118	41.014		60.55
1625	CG			832			52.076	4.698	41.576	1.00	66.55
1626		ASP					51.135	4.051	41.007		71.66
1627		ASP					52.672	4.151	42.569		63.91
1628	C	ASP				•	54.697		41.121		59.37
1629	Ο.			8,32			55.088		40.039		58.56
1630	N CA			833			55.293	8.525	41.664		58.64
1631 1632	CA C			833 833			56.220 55.529	9.303 9.892	40.850	1.00	57.55
1633	0			833			55.730	9.408	39.615 38.503	1.00	57.72
1634	N			834			54.711	10.932	39.806	1.00	61.73 55.50
1635	CA			834			53.992	11.588	38.713	1.00	52.71
1636	CB			834			52.692	10.831	38.438	1.00	52.86
1637	ÇG			834			52.758	9.760	37.377	1.00	55.68
1638	CD1			834			53.292	9.991	36.064	1.00	61.07
1639	CE1			834			53.276	8.953	35.053		58.90
1640	CZ			834			52.739	7.624	35.386		60.52
1641	CE2			834			52.202	7.400	36.702	1.00	
1642	CD2	PHE				_		8.481	37.656		60.30
1643	C .			834			53.471	12.969	39.156		50.70
1644	Ö			834			52.879	13.061	40.234	1.00	
1645	N			835	-		53.578	13.973	38.269		47.79
1646	CA			835			53.278	15.397	38.529		47.62
1647	СВ	ARG	Ą	835			54.544	16.240	38.538		47.50
1648	CG			835			55.739	15.796	39.492	1.00	48.70
1649	CD			835			55.161	15.694	40.870	1.00	48.58
1650	NE			835			56.010	15.092	41.866	1.00	46.46
1651	CZ			835			55.778	13.923	42.395	1.00	45.45
1652	NH1	ARG	A	835			54.763	13.179	41.994	1.00	49.16
1653	NH2	ARG	Α	835			56.575	13.478	43.301	1.00	47.75
1654	C	ARG	. A	835		٠.	52.392	16.027	37.439		44.98
1655	0	ARG	A	835			52.160.	15.415	36.403	1.00	46.68

Α	В	C	D	E		F	G	Н	Į.	Ţ
1656	N ·	LEU	Α	836		51.883	17.246	37.678	1.00	42.81
1657	CA	LEU	A'	836	-	51.065	17.947	36.699	1.00	41.01
1658	CB	ĻEU	Α	836		50.651	19.385	37.117	1.00	38.39
1659	CG	LEU	Α	836		49.702	19.386	38.291	1.00	40.70
1660	CD1	LEU.	Α	836		49.697	20.808	38.794	1.00	38.83
1661	CD2	LEU	Α	836		48.341	18.855	37.832		33.85
1662	С	LEU	A	836		51.944	18.162	35.569	1.00	38.14
1663	0			836		53.047	18.472	35.801		38.29
1664	N	PRO	Α	837	•	51.413	18.144	34.359	1.00	38.07
1665	CA	PRO	Α	837		52.214	18.316	33.157	1.00	36.29
1666	CB	PRO	Α	837		51.232	17.819	32.075	1.00	36.93
1667	ÇG	PRO	Α	837		49.907	18.505	32.492	1.00	35.54
1668	CD	PRO	Α	837		49.973	18.141	34.008	1.00	37.87
1669	- Ç	PRO	Α	837		52.525	19.778	32.964	1.00	36.09
1670	0	PRO	·A	837	-	51.936	20.719	33.673	1.00	34.39
1671	N	THR	Α	838		53.406	20.032	32.013	1.00	34.01
1672	CA	THR	Α	838	•	53.894	21.359	31.903	1.00	35.98
1673	CB	THR	Α	838		55.120	21.485	30.963	1.00	36.64
1674	OG1	THR	A	838		55.395	22.892	30.765	1.00	39.83
1675	CG2	THR	Α	838		54.736	21.181	29.545	1.00	38.71
1676	C	THR	A	838		52.803	22.116	31.252	1.00	38.36
1677	0.	THR	A	838		52.197	21.670	30.274	1.00	39.45
1678	N	PRO	Α	839		52.619	23.313	31.726		36.96
1679	CA			839		51.719	24.197	31.114		37.46
1680	CB			839		51.724	25.405	32.037	1.00	
1681	CG			839		52.681	25.139	33.091		33.53
1682	CD			839	•	53.318	23.890	32.865		37.82
1683	C	PRO				52.285	24.602	29.749		38.53
1684	0			839	•	53.481	24.718	29.536	1.00	
1685	N			840		51.382	24.872	28.840	1.00	40.11
1686	CA			840	;	51.632	25.423	27.501	1.00	40.90
1687	CB	MET		840		50.230	25.730 26.167	26.953	1.00	42.06
1688 1689	CG SD	MET MET		840 840		50.129 50.014	24.569	25.481 24.486	1.00 1.00	50.27 67.03
1690	CE	MET		840		51.027	25.324	23.049	1.00	53.52
1691	Ć.	MET		840		52.554		27.544	1.00	
1692	0	MET		840		52.331	27.704		1.00	41.90
1693	N			841		53.600	26.738	26.735	1.00	39.46
1694	CA			841	•	54.541	27.802	26.665		38.39
1695	СВ			841		53.847	28.967	26.104		36.97
1696	CG			841		53.255	28.676	24.629		40.53
1697		ASP				53.550	27.617	23.972		39.77
1698		ASP				52.445	29.466	24.066		36.62
1699	Ç	ASP	Α	841		55.291		28.007	1.00	
1700	0	ASP	Α	841		55.749	29.129	28.326	1.00	41.50
1701	· N	CYŞ	Α	842		55.381	27,056	28.840	1.00	39.14
1702	CA	CYS	A	842		56.121	27.250			37.64
1703	CB			842		55.781	26,076	31.018		35.73
1704	SG			842		56.126	26.564	32.674		37.11
1705		CYS				57.616	27.200	29.840		36.94
1706	0			842		58.077	26.258	29.219		33.74
1707	Ņ	PRO	A	843		58.352	28.267	30.217	1.00	37.65

A	В	C	D	E	F	G	H	I	J	
1708	CA	PRO	Α	843	59.804	28.178	30.251	1.00	34.75	
1709	CB	PRO	Α	843	 60.257	29.383	31.062	1.00	31.74	
1710	CG	PRO	Ą	843	59.216	30.413	30.790	1.00	38.14	
1711	CD	PRO	Α	843	57.864	29.626	30.588	1.00	36.86	
1712	C	PRO	Α	843	60.258	26.981	30.973	1.00	34.58	
1713	0	PRO	Α	843	59.616	26.646	32.033	1.00	34.71	
1714	N	SER	Α	844	61.364	26.414	30.439	1.00	30.44	
1715	CA	SER	Α	844	61.947	25.239	30.957	1.00	32.01	
1716	CB	SER	Α	844	63.155	24:861	30.092	1.00	32.60	
1717	O.G	SER	Α	844	63.939	23.905	30.735	1.00	32.71	
1718	C .	SER	A	844	62.421	25.519	32.326	1.00	33.01	
1719	Ο.	SER	A	844	62.327	24.669	33.152	1.00	34.58	
1720	N	ALA	Α	845	62.988	26.690	32.593	1,.00	34.49	
1721	ÇA	ALA	Α	845	63.384	26.961	34.006	1.00	36.49	
1722	CB	ALA	A	845	64.315	28.212	34.109	1.00	35.62	
1723	C	ALA	Α	845	62.124	27.066	34.982	1.00	34.14	
1724	0	ALA	A	845	62.137	26.522	36.021	1.00	35.47	
1725	N .	ILE	Α	846	60.992	27.590	34.558	1.00	33.95	-
1726	CA	ILĘ	A	846	59.787	27.597	35.457	1.00	31.95	
1727	CB	ΪΓΈ	Α	846	58.778	28.539	34.866	1.00	33.95	
1728	CG1	ILE	Ą	846	59.535	29.848	34.737	1.00	27.88	
1729	CD1			846	59.817	30.375	36.417	1.00	26.15	
1730	CG2	ILE	Α	846	57.462	28.631	35.735	1.00	28.18	
1731	C	ILE	Α	846	59.233	26.236	35.656	1.00	32.51	
1732	Ò			846		25.847	36.786		31.68	
1733	N			847	59.145	25.413	34.603	1.00	35.30	
1734	CA			847	58.714	23.984	34.822		35.63	
1735	CB			847	58.713	23.167	33.520	1.00	35.69	
1736	CG			847	57.927	21.911	33.661	1.00	32.14	
1737	CD1			847	58.477	20.696	33.310	1.00	27.77	
1738	CE1			847	57.759	19.516	33.469	1.00	33.54	
1739	CZ			847	56.522	19.509	34.064	1.00	31.43	
1740	OH			847	55.943	18.320	34.231	1.00		
1741	CE2			847	55.917	20.681	34.490	1.00	35.09	
1742	CD2			847	56.645	21.928	34.253	1.00	32.81	
1743	C			847	59.577	23.180	35.723	1.00	36.62	
1744	O,			847	59.090	22.401	36.510	1.00	38.41	
1745	N			848	60.874	23.301	35.605	1.00	38.13	
1746	CA			848	61.806	22.493	36.466		39.42	
1747	CB			848	63.262	22.533	35.863		42.35	
1748	CG			848	63.313	21.927	34.477	1.00		•
1749 1750	CD OF1	GLN		848	 62.999 62.228	20.404 19.877	34.549	1.00 1.00	44.22	
1751	NE2			848	63.569	19.735	33.736 35.485	~1.00	48.28	
1752	C			848	61.821	22.902			33.20	
1753	0			848	61.762	22.045	37.950 38.829	1.00	36.31 35.55	
1754	N			849	61.762	24.194	38.200		37.37	
1755	CA			849	61.716	24.194	39.552	1.00	38.40	
1756	CB			849	61.552	26.151	39.507		37.22	
1757	CG			849	61.237		40.933		36.60	
1758	CD1	LEU			62.551	26.128	41.744		24.80	
1759		LEU			60.902	27.913	40.922		33.30	
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A	В	C _.	D	E	,	F	G	H	I	J
1760	C	LEU	Α	849		60.521	24.099	40.250	1.00	39.79
1761	0			849		60.540	23.685	41.468		43.91
1762	N	MET				59.445	24.005	39.489		39.24
1763	CA	MET				58.240	23.461	40.122		39.96
1764	CB			850		56.904	23.372	39.299		40.95
1765	CG	*		850		56.413	24.449	38.405		41.55
1766	SD	MET				55.117	23.680	37.431		39.78
1767	CE	MET				54.574	24.992	36.847		18.82
1768	C	MET				58.422	22.040	40.423		37.52
1769	0 :	MET				57.783	21.573	41.370		38.53
1770	N	MET				58.853	21.295	39.415		35.10
1771	CA	MET				59.106	19.877	39.608		37.40
1772	СВ			851		59.826	19.275	38.407		36.06
1773	CG	MET				58.932	19.130	37.200		35.21
1774	SD	MET				57.537	18.184	37.411		43.74
1775	CE	MET				58.198	16.716	37.455		39.92
1776	C	мет				60.128	19.901	40.767		40.11
1777	0	MET				60.201	18.982	41.570		38.44
1778	N	,		852		60.894	20.980	40.908		39.68
1779	CA	GLN	Α	852		61.720	20.958	42.059		42.72
1780	CB	GLN				62.918		41.882		41.86
1781	CG	GLN	Α	852		63.758		40.778		52.95
1782	CD	GLN	Α	852		65.096	22.010	40.537	1.00	62.78
1783	· OE1	GLN	Α	852		65.118	23.232	40.419	1.00	60.88
1784	NE2	GLN	À	852		66.203	21.229	40.419	1.00	69.19
1785	C	GLN	Α	852		60.804	21.170	43.309	1.00	43.28
1786	0	GLN	Α	852		60.916	20.491	44.309	1.00	43.36
1787	· N	CYS				59.818	22.048	43.242	1.00	43.67
1788	CA	CYS				59.046	22.136	44.454	1.00	41.63
1789	CB			853		58.067	23.283	44.417		40.32
1790	SG			853		58.919	24.771	44.088		36.67
1791	.C	CYS				58.330	20.847	44.697		42.12
1792	0			853		57.934	20.608	45.832		42.69
1793	N			854		58.115	20.013	43,675		42.37
1794	CA			854		57.383	18.705	43.926		41.75
1795	CB			854		56.200		42.946		38.35
1796 1797	CG CD1			854		55.327	19.556	42,514		37.67
	CD1			854		54.684	20.557			35.33 37.18
1798	NE1	TRP				53.972		42.509		
1799		TRP				54.150	21.016	41.201		36.61
1800 1801	CD2			854		54.937	19.861 19.302	41.168		38.28 35.92
1802		TRP		854 854		55.238 54.644	19.863	39.913 38.774		35.78
1803	CH2			854		53.886	20.998	38.860		37.11
. 1804	CZ2			854		53.642	21.597	40.055		36.88
1805	C C			854		58.249		44.163		43.48
1806	0			854		57.788	16.232	43.928		40.95
1807	N			855		59.470	17.495	44.694		46.45
1808	CA			855		60.141	16.215			47.97
1809	СВ			855		61.562	16.399			49.14
1810	CG			855		62.300	17.429			53.78
1811	CD			855		63.599	16.874			57.56

Α	В	C	D	E		F	G	Н	I	J
1812	OE1	GLN	Α	855		64.568	17.630	43.788	1.00	58.49
1813		GLN				63.597	15.574	43.550	1.00	53.02
1814	C	GLN				59.503	15.583	46.185	1.00	48.95
1815	0	GLN				59.135	16.279	47.106		48.87
1816	N	GLN				59.417	14.251	46.193	1.00	
	CA			856		58.760	13.603	47.270	1.00	51,94
1818	СВ			856		58.589	12.110	47.008	1.00	52.72
1819	ĊG			856		57.987	11.341	48.190	1.00	56.53
1820	CD			856		56,902	10.378	47.730	1.00	67.51
1821	OE1	GLN	Ą	856		57.145	9.159	47.626	1.00	70.03
1822	NE2	GLN	Α	856		55.687	10.921	47.421	1.00	70.24
1823	Ċ	GLN	Α	856		59.464	13.844	48.587	1.00	52.44
1824	. 0	GLN	Α	856		58.839	13.901	49.641	1.00	51.92
1825	N	GLU	Α	857		60.776	13.978	48.540	1.00	53.47
1826	CA	GLU	Α	857		61.455	14.329	49.763	1.00	52.94
1827	CB	GLU	A	857		62.751	13.574	49.888	1.00	55.76
1828	CG	GLU	Α	857	100	63.760	13.655	48.776	1.00	62.73
1829	CD	GLU	A	857		64.555	12.357	48.808	1.00	75.13
1830	OE1	GĻŪ	Ą	857		65.792	12.306	48.476	1.00	76.93
1831	OE2	GLU				63.876	11.369			80.58
1832	С.			857		61.642	15.763	50.058	1.00	51.09
1833	0			857	,	62.330	16.518	49.385	1.00	50.10
1834	N			858		61.062	16.140	51.162	1.00	51.40
1835	CA	ALA				60.918	17.553	51.501	1.00	51.01
1836	CB			858		60.376	17.634	52.879	1.00	51.91
1837	C			858		62.236	18.232	51.481	1.00	52.16
1838	Ο.			858		62.369	19.416	51.138	1.00	49.85
1839	N			859		63.210	17.476	51.999		52.64
1840	CA			859		64.489	18.044	52.311	1.00	51.38
1841	CB ·			859		65.270	17.114	53.176	1.00	52.83
1842	C			859		65.149	18.322	51.024	1.00	50.59
1843	0			859		66.033	19.188	50.921	1.00	52.09
1844	N	ARG				64.677	17.712	49.971		49.07
1845	CA			860		65.287	18.206	48.702		49.33
1846		ARG				65.434 66.326	17.117	47.664	1.00	49.91
1847 1848	CG CD			860 860		66.767	15.929 14.950	48.098	1.00	
1849	NE			860		67.897	15.592	46.979 46.310	1.00	67.86 79.99
1850						_				
1851	CZ NH1		,	860 860		67.957 69.035	15.919 16.555	45.009 44.538		84.18 86.30
1852		ARG				66.970	15.583	44.177		86.46
1853	Ç			8,60		64.642	19.423	48.073		47.17
1854	ò			860		65.289	20.026	47.190		48.00
1855	N			861		63.390	19.778		1.00	
1856	CA			861		62,722	20.886	47.710		42.70
1857	CB			861		61.279	21.149	48.284		43.25
1858	CG			861		60.375	19.925	48.223		38.41
1859	CD			861			19.969	48.886		33.61
1860	NE			861		58.563	18.555	48.956		39.84
1861	CZ			861		57.675	18.061	49.776		40.88
1862	NH1			861		57.041	18.838	50.621		47.18
1,863	NH2	ARG	A	861		57.448	16.786	49.809		42.74

A	В	C	D	Ε		F	G	Н	I.	J
1864	C	ARG	А	861		63.548	22.127	47.982	1.00	40.90
1865	0 -			861		64.151		49.048		45.17
1866	N	PRO	Α	862		63.579	23.123	47.135		38.11
1867	CA.			862		64.366	24.296	47.443		36.92
1868	CB	PRO	Α	862		64.173	25.174	46.248		37.49
1869	CG	PRO	A	862		62.978	24.528	45.479		34.16
187.0	CD	PRO	A	862		62.827	23.232	45.881		36.86
1871	Ç	PRO	Α	862,		63.565	24.973	48.494	1.00	40.68
1872	0	PRO	Α	862		62.378	24.679	48.675	1.00	38.28
1873	N	LYS	Α	863		64.195	25.936	49.155	1.00	43.10
1874	CA	LYS	Α	863		63.626	26.658	50.273	1.00	43,38
1875	CB	LYS	Α	863		64.689	26.934	51.402	1.00	44.69
1876	ÇG	LYS				64.809	25.604	52.283	1.00	50.07
1877 -	CD	LYS	Ä	863	٠.	65.801	25.501	53.459	1.00	60.38
1878	CE	LYS	Α	863		65.260	26.211	54.856	1.00	67.58
1879	NZ	LYS	Α	863		66.287	26.302	55.993	1.00	63.31
1880	Ç			863		63.235	27.905		1.00	43.27
1881	O	LYS	Α	863		63.753	28.275	48.476	1.00	45.68
1882	N			864		62.350	28.605	50,290		40.33
1883	CA	PHE	À	864		61.830	29.779	49.682	1.00	37.37
1884	CB .	PHE	Α	864		60.731	30.422	50.528		35.46
1885	CG	PHE	Α	864		59.441	29.808	50.353		32.57
1886		PHE	Α	864		58.869	29.099	51.365	1.00	34.21
1887	CE1	PHE	Α	864		57.672	28.495	51.231		31.67
1888	CZ	PHE	Α	864		56.964	28.622	49.961	1.00	31.72
1889	CE2			864		57.525	29.380	48.954	1.00	30.90
1890	CD2			864		58.743	29.927	49.129	1.00	37.14
1891	C			864				49.304		38.42
1892	0			864		62.717	31.509	48.307		40.96
1893	N			865		63.875	30.905	50.126	1.00	
1894	CA			865		64.964	31.837	49.712		40.21
1895	CB			865	1	66.009	31.987	50.851		40.74
1896	C			865		65.712	31.328	48.376	1.00	
1897	0			865		66.186	32.133	47.578		40.17
1898	N			866		65.855	30.036	48.142		38.13
1899	CA			866		66.437	29.657	46.850		41.20
1900	CB			866		66.592	28.205	46.710	1.00	
1901	CG			866		67.356	27.563	47.886		46.38
1902		ASP				68.194		48.467		45.69
1903			-			67.164	26.319	48.255		46.52
1904	C			866		65.471	30.112	45.734		43.03
1905	0			866		65.895	30.862	44.786		43.71
1906	N			867	٠.	64.154	29.834	45.959		41.85
1907	CA			867		63.161	30.097	44.945		39.25
1908		ILE				61.738	29.686	45.429		40.79
1909		ILE				61.715	28.196	45.547		37.78
1910	CD1			867		60.587	27.644	46.393		31.95
1911	CG2			867		60.673	29.978	44.377		40.13
1912	C.			867		63.262	31.517	44.601		38.15
1913	O .			867		63.383	31.839	43.478		34.00
1914	N	-		868		63.293		45.587		41.76
1915	CA	۷ĄĻ	A	868		63.363	33.826	45.221	T.00	42.24

Ą	В	C	D	E		F	G	Н	I.	J
1916	· CB	VAL	À	868	•	63.468	34.646	46.495	1.00	43.37
1917		VAL			•	63.906	36.180	46.204		36.83
1918	CG2	VAL	Α	868		62.167	34.602	47.161		44.87
1919	Ç			868		64.595	34.086	44.346	1.00	
1920	0			868		64.566	34.653	43.250	1.00	
1921	N			869		65.709	33.593	44.819	1.00	,
1922	CA			869		66.947	33.788	44.034	1.00	
1923	CB	SER	Α	869		68.135	33.277	44.868		46.51
1924	OG	SER	Α	869		69.256	32.973	44.081		55.81
1925	Ç .	SER	Α	869		66.932	33.161	42.595	1.00	43.21
1926	0	SER	Α	869		67.448	33.748	41.646	1.00	45.11
1927	N	ILE	Α	870		66.309	32.041	42.410	1.00	40.48
1928	CA		-	870		66.341	31.421	41.081	1.00	41.53
1929	CB			870		65.721		41.130	1.00	40.21
1930	CG1			870		66.726	29.091	41.617	1.00	37.62
1931	CD1			-870		65.913	27.844	42.278	1.00	34.59
1932	CG2	ILE	Α	870		65.227	29.674	39.764	1.00	37.43
1933	C			870		65.551	32.101		1.00	
1934	0			870		65.629		38.862		45.96
.1935	N			871		64.743	32.960	40.589		42.32
1936	CA			871	•	63.690	33.613	39.857		39.74
1937	CB			871		62.477	33.514			36.70
1938	CG			871		61.084	32.948	40.403		42.57
1939		LEU				61.128	31.584	39.753		39.10
1940		LEU				60.155	32.800	41.647	1.00	
1941	С			871		64.073	35.062	39.677		40.56
1942	Ο.			871		63.729	35.716	38.685	1.00	39.95
1943	N			872		64.858	35.566	40.655		43.30
1944	CA			872		65.641	36.754	40.333		45.25
1945	CB			872		66.270	37.416	41.537	1.00	
1946	CG			872		65.296	38.054	42.370	1.00	
1947	OD1	ASP				64.560	38.981	41.884	1.00	
1948	OD2	ASP				65.222	37.729	43.584	1.00	
1949 1950	C			872 872		66.617	36.467 37.301	39.147	1.00	42.59
1950	N.					66.673				40.36
1952	CA			873 873		67.123 68.158	35.244 35.043	39,030	1.00	43.85
1953	CB			873		68.848	33.639	37.946 37.915		
1954	CG .			873		69.201			1.00	
1955	CD			873		70.697	33.005	36.461 36.301		56.65 64.86
1956	CE			873		71.327	31.621	37.470		72.42
1957	NZ			873		72.948	31.544	37.520		77.28
1958	C			873		67.273	35.234	36.716		45.54
1959	0			873	,	67.554	36.043	35.848		47.71
1960	N			874		66.177	34.496	36.670		44.00
1961	CA			874		65.345	34.413	35.523		41.76
1962	CB			874		64.257	33.510	35.950		42.33
1963	CG			874		64.335	32.030	35.627		43.61
1964	CD1			874		65.728	31.506	34.940		39.31
	CD2	LEU				63.820	31.183	36.838	1.00	
1966	С			874		64.842	35.818	35.223		41.73
1967	Ο			874	٠.	64.974	36.328	34.103		40.87
							•			*

Α	В	Ç	D	Æ		F	G	H	·I	J ·
1968	N .	ILÉ	Α	875	•	64.356	36.539	36.219	1.00	41.36
1969	CA	ILE	Α	875		63.986	37.926	35.895		41.48
1970	CB	ILE	Α	875		63.241	38.556	37.045	1.00	41.83
1971	CG1	ILE	Α	875		61.848	37.830	37.313	1.00	
1972	CD1	ILE	Α	875		61.307	38.014		1.00	
1973	CG2	ILE	Α	875		63.128	39.991	36.768	1.00	
1974	Ç	ILE	Α	875		65.128	38.822	35.369		43.50
1975	0	ILE	Α	875.		64.949	39.592	34.357	1.00	42.05
1976	N .	ALA	Α	876		66.305	38.724	36.005	1.00	43.68
1977	CA	ALA	Α	876		67.460	39.526	35.543	1.00	47.29
1978	CB	ALA	Α	876		68.686	39.705	36.633	1.00	45.33
1979	C	ALA	Α	876		67.981	39.177	34.150	1.00	47.94
1980	O	ALA	Α	876		68.349	40.096	33.381		49.38
1981	N	ALA	Α	877		67.882	37.894	33.781		49.67
1982	CA	ALA	Α	877		68.248		32.433	1:00	48.36
1983	CB	ALA	Α	877		69.359	36.469	32.485	1.00	47.02
1984	C .			877	. •	67.051		31.723		48.54
1985	0			877		66.995	35.680	31.364		48.87
1986	Ņ			878		66.165	37.720,			48.50
	CA			878		64.883	37.290	30.768		50.31
1988	СВ			878		64.248	38.609	30.314		49.52
1989	CG			878		65.076	39.594	30.795		48.76
1990	CD			878		66.399	39.140	31.199		47.09
1991	Ç ·			878		65.005	36.339	29.595		51.52
1992	0			878		64.080	35.558	29.329		52.11
1993		ASP				66.118	36.423	28.857		53.47
1994	CA .			879	-	66.313	35.529			53.74
1995 1996	CB			879		67.561	35.840	26.877		54.59
1996	CG			879.		67.426	37.117	26.105		57.51
1997	OD1	ASP		879		66.311 68.385	37.639 37.705	25.969 25.618		61.05 63.66
1999	C C			879		66.337	34.121	28.137		52.26
2000	0			879		66.064	33.243	27.320		52.16
2001	N			880		66.687	33.897	29.401		50.31
2002	CA '			880		66.494	32.578	30.001		49.70
2003	СВ			880		66.869	32.588	31.504		52.27
2004	OG			880		65.870		32.357		50.20
2005	C			880		65.026	32.063	29.841		49.60
2006	0			880		64.796	30.895			49.66
2007	N			881		64.021	32.922	29.716		47.09
2008	CA			881		62.691	32.401			44.70
2009	CB	LEU	À	881		61.748		30.429		42.64
2010	CG-	LEU	Α	881		62.027	33.854			37.67
2011	CD1	LEU	Α	881	-	61.053	35.053	32.335	1.00	46.29
2012	CD2	LEU	Α	881		61.905	32.636	32,698	1.00	30.01,
2013	C .					62.230	31.982	28.406		46.11
2014	0 ,			881		61.063	31.708	28.161		46.79
2015	N			882		63.166	31.996	27.480		46.05
2016	CA			882		62.872	31.829	26.034		44.09
2017	CB			882		63.999	32.408	25.172		42.68
2018	CG			882		63.822	33.855	24.808		50.65
2019	CD	LYS	A	882		64.615	34.299	23.548	1.00	57.85

A	В	C	D	E		F	G	Н	I	J
2020	CE	LYS	Ą	882		66.036	33.711	23.442	1.00	57.83
2021	NZ	LYS	Α	882		66.063	32.670	22.379		62.95
2022	С	LYS	Α	882	٠.	62.712	30.397	25.609	1.00	39.93
2023	0	LYS	. A	882		62.057	30.189	24.624		38.21
2024	N	THR	Α	883		63.413	29.481	26.255		36.09
2025	CA	THR	Α	883		63.327	28.070			37.39
2026	CB	THR	Α	883		64.642	27.295	26.300	1.00	38.89
2027	OG1	THR	Α	883		65.753	27.896	25.645	1.00	45.06
2028	CG2	THR	Ά	883		64.619	25.861	25.703		34.98
2029	С	THR	Α	883		62.325	27.441	26.760	1.00	37.20
2030	0	THR	·A	883		62.376	27.619	27.985	1.00	38.72
2031	N	LEU	A	884	2	61.468	26.653	26.136		36.33
2032	CA	LEU	Α	884		60.299	26.154	26.735	1.00	37.19
2033	CB.	LEU	Α	884		59.256	26.182	25.688	1.00	37.32
2034	CG	LEU	Α	884		58.405	27.401	25.764	1.00	39.51
2035	CD1	LEU	Α	884	٠.	59.168	28.654	26.319	1.00	40.46
2036	CD2	LEU				57.816	, 27.595	24.464	1.00	39.93
2037	С			884		60.536	24.812		1.00	37.90
2038	0			884		61.439		26.704	1.00	37.67
2039	N .	ALA				59.766	24.349	28.090		40.12
2040	CA			885		59.817	22.985	28.517		43.23
2041	CB			885		59.092	22.789	29.809		40.83
2042	C			885		59.015	22.235	27.462		47.82
2043	0	,		885		58.130	22.796	26.805		48.49
2044	N	-		886		59.249	20.942	27.379		53.03
2045 2046	CA . CB	ASP		886		58.481 59.468	20.131 19.350	25.609		57.55 59.17
2040	CG			886		59.801	20.080			
2048	OD1	ASP				60.703	19.608	23.581	1.00	
2049		ASP				59.214	21.145	23.960	1.00	73.11
2050	C			886		57.476	19.113	26.984	1.00	58.65
2051	0			886			18.664	28.103	1.00	58.38
2052	N	ALA		1.5		56.511	18.790	26.120		62.53
2053	CA ,	ALA	Α	887		55.793	17.514	26.245		63.20
2054	CB	ALA	Α	887		56.793	16.396	26.732		63.87
2055	C	ALA	Α	887		54.506	17.495	27.046	1.00	64.13
2056	0			887		53.476	18.015	26.589		64.69
4115	01A	ATP	A:	1000		37.488	36.083	52.431		68.23
4116	PA			T000		38.403	36.497	51.393		58.85
4117		ATP				39.539	36.819	52.377		63.08
4118		ATP				38.307	35.243	50.501		64.52
4119	PB			1000		37.326	34.027	51.050		65.46
4120		ATP				36.977	33.851	52.487		64.98
4121		ATP				38.372	32.868	50.835		64.05
4122 4123	PG	ATP		1000		36.030 36.102	33.835 33.771	50.075		61.18
4124		ATP				37.337	34.705	48.418 47.992		64.66 61.28
4125		ATP				34.842	34.703	47.992		53.07
4126		ATP				36.347	32.439	47.869	1.00	
4127		ATP				37.771		50.611		63.69
4128	C5*	ATP				36.564	37.629	49.871		51.19
4129	C4*	ATP				36.702	38.452	48.619		48.45

A	В	C.	D	Ē.		F		G		Н	Ī	J
4130	04*	АТР	A1	000		36.838	39.	.812	48	. 897	1.00	48.02
4131	C1*	ATP	A1	000		37.801	40.	.399	48	.075	1.00	51.30
4132	C2*	ATP	A1	000		38.364	39.	.349	47	.132	1.00	56.06
4133	02*	ATP	Α1	000		37.709		.459	45	.885	1.00	53.71
4134	C3*	ATP	A1	000		37.962	38	.092		.863		56.21
4135	03*	ATP						.178		.929		56.41
4136	N9	ATP				38.870		.760		.977		48.97
4137	C8	ATP				39.164		209		.155		46.56
4138	N7	ATP				40.236		.937		.642		47.18
4139	C5	ATP				40.553				.802	1.00	
4140	C6	ATP				41.495		.912		.749		45.05
4141	N6			000		42.491		.015		.606		51.47
4142		ATP				39.721		.807		.758		44.98
4143		ATP				39.840		.616		.754		40.18
4144	Ċ2 .					40,730		.613		.652		40.86
4145	N1	АТР				-		.736		.735		37.92
4177	0	НОН			,	34.209		.517				42.77
4178	0	НОН				52.030		.683		.996		37.34
4179		НОН				36.987		304		.823		48.24
4180	Ö	НОН				24.445		.848		.354		30.63
4181	0	НОН				38.693		.951		.781		33.40
4182	0.	НОН				43.619		.688		.907		36.33
4183	0	НОН				35.150		.275		.892		38.81
4184	Ö	НОН				34.293		.454		.291		26.79
4185	0	НОН				26.249		.679		.871		28.41
4186	0	НОН				37.152		.870		.285		44.21
4187	0	НОН				52.468		.101		.466		34.94
	0	нон				58.705		.579		.068		42.08
4189	0	НОН				21.983		.989		.287		43.17
4190	0	НОН				50.636		.308		.909		29.96
4191	Ö	НОН				38.314		.464		.478		53.90
4192	0	НОН				58.592		.555		.508		46.60
4193	0	HOH				34.711		. 223		.323		38.90
4194	0	HOH				51.004		502		.290		43.71
4195	Ó	HOH				50.245				.484		39.87
4196	0	нон				53.203		.844		705		35.11
4197	0	НОН				37.565		987				42.90
4198	0	НОН				51.412		.707		.922		46.40
4199	o	НОН				50.121		. 627				49.18
4200	0	НОН				54.265		. 237		.221		38.57
4201	0	нон				35.932		.979		.458		44.49
4202	0	НОН				40.167		.451		.178		43.85
4203	Ö	НОН				63.877		.468		.538		41.56
4204	0	НОН				62.331		.960		.402		46.79
4205	0	НОН				49.475		.163		.500		41.09
4206	o	НОН				46.704		.338		.706		32.58
4207	0 -	НОН				34.910		.079		.822		29.88
4208	0	НОН				66.529		.709		.322		38.73
4209	0	НОН				54.290		.356		.871		33.86
4210	0	НОН				39.125		.580		.291		52.12
4211	0	HOH	-		•	30.038				.948		38.53
4212	0	HOH				39.032		. 142		.076		46.77
	Ψ,	11011	-	JJ ,		عدب بدد	±0,		4,	. 0 / 0	1.00	±0.//

A	В	C	D	E		F	G	Н	Ι	J
4213	0	НОН	Y	338		27.063	12.328	81.741	1.00	49.23
4214	0	НОН	Y	339	-	43.495	-1.978	101.845	1.00	29.87
4215	0	HOH	Y	340		24.042	11.453	87.471	1.00	41.90
4216	O	HOH	Y	341		28;532	21.817	105.465	1.00	51.38
4217	0	HOH	Y	342		34.250	-2.816	87.557	1.00	40.16
4218	0	HOH	Y	343		61.321	37.753	51,409	1.00	42.73
4219	0	HOH	Y	344		36.839	-8.065	88.494	1.00	47.43
4220	O	HOH	Y	345	4.	36.931	51.353	67.108	1.00	43.87
4221	0	HOH	Ä	346		32.133	3.426	74.670	1,00	41.40
4222	0	НОН	Y	347		35.239	-3.830	103.044	1.00	32.29
4223	Ö	HOH	Y	348		29.414	4.943	100.046	1.00	41.59
4224	O	HOH	Y	349		24.239	20.789	98.495	1.00	55.55
4225	0			350		56.249	24.229	27.459	1.00	35.32
4226	. 0	HOH	Y	351		42.039	36.733	27.828	1.00	31.77
4227	0	HOH	Y	352		49.598	14.602	89.944	1.00	39.22
4228	0	HOH	Y	353		53.086	45.810	55.315	1.00	46.66
4229	0	HOH	Y	354		56.134	28,666	55.481	1.00	37.89
4230	O	HOH	Y	355		63.607	21.585	51.318	1.00	45.92
4231	Ó	HOH	Y	356		47.007	-0.656	101.802	1.00	39.67
4232	0			357		56.849	42.289	30.051	1.00	43.93
4233	. O	HOH	Y	358		50.297	45.047	58.166	1.00	37.20
4234	O.	HOH	Y	359				57.319	1.00	46.64
4235	0	HOH	Y	360		61.669	23.736	51.056	1.00	46.15
4236	0			361		46.431	16.691	103.110	1.00	35.98
4237	0	HOH	Y	362		43.512	8.970	105.775	1.00	36.32
4238	0	HOH	Y	363		62.088	25.972	23.786	1.00	38.78
4239	0	HOH	Y	364		64.287		20.702	1.00	44.19
4240	0			365		34.618	30.621	63.970	1.00	40.96
4241	0	• НОН	Y	366		25.281	41.511	59.290	1.00	44.80
4242	0 '	НОН	Υ	367		45.275	20 695	97 308	1 00	46 67

FIGURE 3B

LEGEND

Column headings from left to right are (A) 'Atom Number', (B) 'Atom Type', (C) 'Amino Acid', (D) 'Chain Identifier', (E) 'Amino Acid Number', (F) 'X Coordinate', (G) 'Y Coordinate', (H) 'Z Coordinate', (I) 'Occupancy' (OCC) and (J) 'B factor'.

	Α	В	C	D	E		F	G	Н	I	J
	2057	N	ALA	В	602		61.588	-1.705	97.096	1.00	75.62
	2058	CA	ALA	В	602		61.031	-2.970	96.546	1.00	76.68
	2059	CB.	ALA	В	602		61.665	-3.292	95.199	1.00	76.47
	2060	C	ALA	В	602		61.337	-4.080	97.519	1.00	77.44
	2061	0	ALA	В	602		61.332	-5.311	97.156	1.00	75.75
	2062	N	ĻYS	В	603	٠,	61.635	-3.605	98.744	1.00	77.75
	2063	CA	LYS	В	603		62.173	-4.417	99.861	1.00	77.56
	2064	CB			603		63.425	-3.748	100.411	1.00	78.96
	2065	CG	LYS	В	603	٠.	63.212	-2.282	100.938	1.00	78.12
	2066	CD.	LYS	В	603		62.779	-2.211	102.422	1.00	78.99
	2067	ÇE	LYS	В	603		63.952	-2.034	103.426	1.00	79.93
	2068	ΝŻ	LYS	В	603		64.536	-0.656	103.573	1.00	79.82
	2069	C	LYS	В	603		61.103	-4.418	100.921	1.00	76.81
	2070	0	LYS	В	603		61.315	-4.798	102.072	1.00	75.16
	2071	N	PHE	, B	604		59.938	-3.975	100.457	1.00	76.03
	2072	CA	PHE	В	604		58.711	-3.929	101.207	1.00	74.92
	2073	CB	PHE	В	604		58.102	-2.575	100.991	1.00	76.05
	2074	CG:	PHE	В	604		58.700	-1.538	101.857	1.00	78.39
	2075	CD1	PHE		604		58.564	-1.631		1.00	79.39
	2076	CE1	PHE	В			59.115	-0.671		1.00	84.10
	2077	CZ	PHE		604		59.854	0.395		1.00	81.74
	2078		PHE		604		60.017		102.144	1.00	82.47
	2079	CD2	PHE		604		59.448		101.312	1.00	81.05
	2080	C	PHE		604		57.783	-5.006	100.707	1.00	73.54
,	2081	0	PHE		604		56.553	-4.941	100.826		73.46
	2082	N	THR		605		58.368	-6.069		1.00	71.71
		CA	THR		605	•	57.496	-7.068	99.640	1.00	68.96
	2084	CB	THR		605		57.540	-6.922	98.163	1.00	68.75
	2085	OG1	THR		605		57.203	-8.191	97.632	1.00	71.34
	2086	CG2	THR				58.991	-6.774	97.722	1.00	71.15
	2087	C	THR				57.874		99.969	1.00	65.74
	2088	0 -	THR.		605		59.000	-8.868	99.864		66.65
	2089	N	THR		606		56.897	-9.294		1.00	61.47
	2090	CA	THR		606		57.083		100.542	1.00	56.89
	2091	CB	THR		606		55.818	-11.150	101.234	1.00	58.04
	2092	OG1	THR		606			-10.407	102.470	1.00	53.91
	2093	CG2	THR		606			-12.662		1.00	56.07
	2094	С	THR		606			-11,402	99.182	1.00	55.32
	2095	0	THR		606			-11.139	98.285	1.00	55.18
	2096	N	GLU					-12.330	99.008	1.00	52.87
	2097	CA	GĻU				58.113	-13.077	97.771		48.83
	2098	CB	GĻU		607		59.550	-13.585	97.546	1.00	50.19
	2099	CG	GLU				59.720	-14.650	96.488	1.00	49.52
	2100	CD	GLU	Ŗ	607		59.828	-14.069	95.132	1.00	53.13

	A	В	С	D	E		F	G	Н	. I	J	
	2101	OE1	GLU	В	607		59.999	-12.782	95.021	1.00	47.52	
	2102	OE2	GLU	В	607		59.708	-14.931	94.179	1.00	56.60	
	2103	C.	GLU	В	607		57.128	-14.194	97.907	1.00	47.66	
	2104	0	GLŲ	В	607.		57.022	-14.795	98.940	1.00	45.85	
	2105	N	ILE	B	608		56.391	-14.548	96.865	1.00	47.65	
	2106	CA			608			-15.608	97.148		47.68	
	2107	СВ			608			-15.132	96.825		48.07	
	2108	CG1			608			-14.230	97.980		49.31	
	2109		ILE					-13.233			50.75	
	2110	CG2			608			-16.282	96.537		42.03	
	2111	C			608	** * .		-16.879			48.49	
	2112	0			608				95.356		47.91	
	2113	N	HIS					-18.022	97.025		49.63	
	2114	CA	HIS					-19.227	96.270		51.07	
	2115	СВ			609			-20.399	97.228		52.62	
	2116	CG	HIS					-21.599	96.510		58.19	
	2117		HIS					-22.693	96.162	1.00		
	2118		HIS					-23.592			64.63	
	2119		HIS					-23.110				
	2120		HIS					-23.110	95.462		68.36 67.33	
	2121	C			609			-19.610	96.060 95.259	•		
											49.78	
	2122	O			609			-19.793	95.618		51.06	
	2123	N			610			-19.951	94.060			
	2124	CA			610			-20.289	92.937		48.79	
	2125	CB			610			-20.868	91.902		47.24	
	2126	CG			610			-20.130	92.245		45.60	
	2127	CD			610			-20.127	93.691		48.27	
	2128		PRO					-21.233	93.256		47.95	
	2129	0			610			-21.007	92.869		49.54	
	2130	N			611			-22.313	93.907		48.59	
	2131 -	,	SER					-23.175	94.438		48.44	
	2132	CB			611		-	-24.417	95.162		51.57	
	2133	OG			611			-24.112	96.289		52.63	
	2134	C			611			-22.460	95.404		47.60	
	2135	0			611			-22.969	95.803		48.97	
	2136	N			612			-21.290	95.872		46.75	
	2137	CA	CYS					-20.743	96.749		48.06	
•	2138	CB	CYS					-19.740	97.818		47.86	
	2139	SG	CYS					-20.799	98.813		51.39	
		C			612			-20.195	96.060		45.77	
	2141	0	CYS					-19.972	96.685		45.07	
	2142	N	VAL				49.747	-20.011	94.767		44.88	
	2143	CA	VAL	В	613			-19.212	94.037		44.04	
	2144	CB	VAL					-18.166	93.300	1.00	45.69	
	2145				613	•		-17.575	92.151	1.00	41.35	
	2146		VAL			• "		-17.191	94.320	1.00	41.89	
	2147	Ç '	VAL	В	613			-19.928	93.015		42.53	
	2148	0	VAL					-20712	92.308	1.00	43.54	
	2149	N	THR			-		-19.543	92.870	1.00	40.71	
	2150	CA	THR	В	614		45.947	-20.229	91.985	1.00	41.54	
	2151	СВ	·THR	В	614		45.183	-21.096	92.969	1.00	40.51	
	2152	OG1	THR	В	614			-22.498			48.61	

A	В	. C	D	E	F		G	Н	I	J
2153	CG2	THR	B	614	43 817	-20	769	93.108	1 00	44.50
2154	C	THR			45.095			91.179		41.38
2155	Ō	THR		614	44.528			91.814		42.18
2156	N	ARG		615	44.943			89.853	1.00	
2157	CA	ARG		615	44.168			88.956	1.00	
2158	СВ	ARG		615	44.933				1.00	36.87
2159	CG	ARG			46.293			87.956		35.71
2160	CD	ARG			47.125			86.727		38.53
2161	NE	ARG			47.289			86.152		38.81
2162	CZ	ARG			47.844			84.944	1.00	
2163	NH1	ARG	В	615	47.984	-20	.387	84.635	1.00	31.60
2164	NH2	ARG	В	615	48.288	-18	.181	84.111	1.00	33.51
2165	C	ARG	В	615	42.893			88.530	1.00	37,76
2166	0	ÁRG	В	615	42.807	-20	.263	88.159	1.00	39.62
2167	N·	GLN	Ė	616	41.827	-18	.383	88.576	1.00	38.21
2168	CA	GLN	В	616	40.604	-18	. 954	88.262	1.00	37.39
2169	CB	GLN	В	616	39.752	-18	.618	89.472	1.00	39.47
2170	CG	GLN	В	616	39.837	-19	.563	90.688	1.00	43.49
2171	ÇD	GLN	Ŗ	616				92.022		50.53
2172	OE1	GLN	В	616				92.256		
2173	NE2	GLN	В	616	38.866			92.903		57.89
2174	C	GLN		616	39.977	-18	.178	87.047	1.00	36.84
2175	0	GLN	В	616	38.992	-18	.598	86.463	1.00	32.04
2176	N	LYS	В	617	40.448	-16	.990	86.746	1.00	
2177	CA	LYS		617	39.759			85.725		38.36
2178	CB	LYS		617	38.377				,1.00	39.22
2179	CG	LYS			37.772			86.233		42.77
2180	CD			617.	36.370					53.79
2181	CE	LYS		617	35.593			87.025		63.68
	NZ	LYS			35.717			88.489	1.00	
2183	C	LYS		617	40.552			85.316	1.00	
2184	0	LYS		617	41.225		-	86.140	1.00	
2185	N	VAL			40.594			84.039		40.89
	CA	VAL			41.186			83.793		40.18
2187	ÇB CC1	VAL		618	41.706			82.385		
2188	CG1	VAL VAL		618 618	42.262			82.120	1.00	
2189 2190	CGZ	VAL			42.780 40.213			82.162 83.975	1.00	41.80
2191	0	VAL						83.503		39.02
2192	N	ILE			40.614			84.559		38.05
2193	CA	IĻE			39.694			84.823		39.66
2194	CB	ILE		619	39.608		.832	86.309	1.00	
2195	CG1	ILE			40.991			86.979	1.00	
2196	CD1	ILE			40.786			88.632	1.00	
2197	CG2	ILE			38,943			87.102		40.94
2198	C	ILE			40.206		.870	84.202		43.93
2199	0	ILE			39.560		.812	84.237		42.87
2200	N	ĢĻY		620	41.393		.925	83.623		45.17
2201	CA	GLY			41.915		.673	83.104		47.33
2202	С	GLY			43.224		.092	82.429		50.85
2203	0	GLY			43.871		.236	82.620		51.47
2204	N	ALA			43.595		.160	81.572		51.35
								. "		

A	В	ĊĎ	Ε		F	G	H	Í	J
2205	CA	ALA B	621		44.760	-7.184	80.745	1.00	53.88
2206	СВ				44.426	-7.688	79.316		54.10
2207	Ċ	ALA B			45.299	-5.791°	80.674	1.00	
2208	0	ALA B	621		44.828	-4.959	79.886	1.00	57.99
2209	N	GLY B	622		46.264	-5.589	81.554	1.00	57.03
2210	ÇA	GLY B	622		47.168	-4.483	81.562	1.00	59.11
2211	C	GLY B	622	•	48.209	-4.562	80.477	1.00	58.66
2212	0				48.272	-5.501	79.641		59.00
2213	N		623		49.057	-3.532	80.510		59.69
2214	CA	GLU B	623		50.174	-3.401	79.539		60.06
2215	СВ	GLU B	623		50.715	-1.953	79.435	1.00	61.65
2216	CG	GLU B	623		51.576	-1.387	80.577	1.00	66.11
2217	CD	GLU B	623		52.456	-0.197	80.080	1.00	77.25
2218	OE1	GLU B	623		52.149	0.983	80.464		79.02
2219		GLU B	623		53.437	-0.432	79.272		79.70
2220	C	GLU B	623		51.309	-4.335	79.842		58.25
2221	0	GLU B	623		52.235	-4.436	79.070		60.16
2222	N	PHE B	624		51.275	-5.016	80.970	1.00	54.74
2223	CA	PHE B	624		52.410	-5.847	81.262	1.00	51.99
2224	СB	PHE B	624		52.789	-5.730	82.754	1.00	51.88
2225	CG	PHE B	624		53.391	-4.399	83.133		54.02
2226	CD1	PHE B	624		54.733	-4.102	82.907	1.00	55.50
2227	CE1	PHE B	624		55.256		83.249		
2228	CZ	PHE B	624		54.422	-1.780	83.816	1.00	56.45
2229	CE2	PHE B	624		53.062	-2.046	84.037	1.00	52.77
2230	CD2	PHE B	624		52.556	÷3.379	83.686	1.00	56.55
2231	C	PHE B	624		51.975	-7.269	80.865	1.00	50.15
2232	0	PHE. B	624		52.725	-8.128	80.468	1.00	50.83
2233	Ν.	GLY B	625		50.672	-7.410	80.863	1.00	47.48
2234	CA	GLY B	625		50.054	-8.656	80.601	1.00	45.33
2235	C	GLY B	625		48.716	-8.751	81.302	1.00	43.78
2236	0	GLY B	625		48.093	-7.765	81.722	1.00	43.69
2237	N	GLU B	626		•	-10.005	81.484		44.33
2238	CA	GĻU B	626			-10.291	82.001	1.00	43.81
2239	CB	GLU B				-11.745	81.695	1.00	44.48
2240	CG	GLU B	626			-12.117	80.292	1.00	51.57
2241	CD	GLU B	626			-12.312	79.404	1.00	61.26
2242	OE1			÷		-11.265	78.940	1.00	69.20
2243		GLU B				-13.467	79.241		64.36
2244	C	GLU B				-10.078	83.494		40.95
2245	0	GLU B				-10.120	84.202		41.04
2246	N	VAL B				-9.798	83.869		
2247	CA	VAL B			45.186	-9.710	85.213		35.92
2248	CB CC1	VAL B			44.730		85.610		34.09
22 49 2250	CG1 CG2	VAL B				-8.208 -7.101	87.155	As	27.95
2250		VAL B				-7.191 -10.796	85,273		36.93
2252	O	VAL B VAL B				-10.796 -10.850	85.471		
2252	N.	TYR B				-10.850 -11.644	84.773		37.84
2254	CA	TYR B				-11.644	86.441		31.13 31.63
2255	CB	TYR B				-12.753	86.884		30.96
2256	СG	TYR B				-14.033	87.021 85.752		30.76
		TIKE	020		±3.230	74.727	05.154	1.00	20.70

Express Mailing No. EV327523004US Docket No. SYR-EPHA2-5001-C1 Sheet 49 of 90

	A	В	C	D	E			F		Ģ	Н	I	J
	2257	CD1	TYR	В	628		1	46.561	-14.	097	85.486	1.00	28.48
	2258	CE1	TYR		628			47.279			84.434	1.00	
	2259	CZ	TYR		628			46.688			83.475	1.00	38.38
	2260	ОН	TYR		628			47.394			82.353	1.00	
	2261	CE2	TYR		628			45.377	•		83.588	7	33.96
	2262	CD2	ΤΥR		628			44.636			84.802		34.73
	2263	Ç	TYR					43.038			88.305	1.00	33.38
	2264	0			628			43.643			89.182	1.00	33.26
	2265	N	LYS					41.975			88.574	1.00	33.61
	2266	CA .	LYS		629			41.460			89.864	1.00	36.43
	2267	CB	LYS		629			39.965			89.816	1.00	
	2268		LYS		629			39.239			90.690		42.88
	2269	CD	LYS		629	:		39.362			92.036		47.09
	2270	CE	LYS					39.418			92.959	1.00	51.42
	2271	NZ	LYS					38.203			93.282		38.62
,	2272	C	LYS		629			41.838			90.264	1.00	38.05
	2273	0, -	LYS		629			41.706			89.484		34.96
	2274	N	GLY		630			42.248	-		91.520		39.79
	2275	CA	GLY					42.714				1.00	40.62
	2276	C	GLY					42.659				1.00	41.62
	2277	0	GLY					41.952			94.134		42.67
	2278	N	MET		631			43.414			94.046	1.00	
	2279	CA		В	631			43.374			95.471	1.00	40.08
	2280	CB	MET		631		-	42.675				1.00	39.40
	2281	CG	MET		631			41.244			95.422		36.74
	2282	SD	MET					40.271			96.157	1.00	
	2283	CE	MET				•	40.094			98.007	1.00	44.76
	2284	C	MET					44.847			95.862		40.76
	2285	0	MET		631			45.643			95.080	1.00	38.68
	2286	N	LEU					45.205			97.064	1.00	41.51
	2287	CA	LEU					46.542			97.497	1.00	43.33
	2288	СВ	LEU		632		- `	47.248			97.744	1.00	43.33
	2289	ÇG	LEU		632			48.602		-	98.533	1.00	39.74
	2290	CD1	LEU		632			49.835			97.728	1.00	38.69
	2291	CD2	LEU					48.819			99.169		41.35
	2292	C	LEU		632			46.389			98.813	1.00	
	2293	0	LEU					45.547			99.630	1.00	
	2294	N	ALA					47.235			98.998	1.00	51.87
	2295	CA	ALA								100.227		56.44
	2296	СВ			633						100.004		56.80
	2297	C			633						101.124		57.40
	2298	0			633						100.712		56.04
	2299	N.	THR								102.247	1.00	
	2300	CA	THR	В	634						103.448		65.92
		СВ	THR								103.700		67.32
	2302	QG1	THR								102.996		67.54
	2303	CG2	THR								103.123		69.80
	2304	C	THR	В	634						104.576		67.85
	2305	0	THR	В	634						105.602		70.48
	2306	N	LYS	Þ	639						106.044	1.00	68.69
	2307	CA	LYS	В	639			43.550	-20.	394	105.027		66.79
	2308	CB	LYS	В	639			42.454	-19.	415	105.557		67.15

Α	B	C	D	E		•	F		G		Н	I	J
2309	CG	LYS	В	639		42	.933	-18	.018	106	.081	1.00	68.24
2310	CD	LYS	В	639	٠,		.772					1.00	74.03
2311	CE			639			759					1.00	79.83
2312	NZ			639			.868				.918	1.00	77.67
2313	C			639			.048				.622	1.00	65.00
2314	0	LYS	В	639		•	.070		.547		.104	1.00	
2315	N	GLU		640			.302		.082		.006		60.87
2316	CA	GLU		640			.491		.779				57.13
2317	СВ			640			.992					1.00	58.15
2318	CG			640			.495						60.04
2319	CD.			640			.096				.392		64.28
2320	OE1	GLU					.891				.310	1.00	
2321	OE2	GLU					.957				.604		61.98
2322	.C			640			.667						54.89
2323	0			640			.528				.881		53.30
2324	N .	VAL					.261					1.00	
2325	CA			641			.508						48.68
2326	СВ	1		641			.994				.085		49.50
2327	CG1	VAL	В	641			.390						48.06
2328	CG2	VAL	В	641			.291					1.00	57.76
2329	С	VAL	В	641			.394				.866		45.71
2330	0	VAL	В	641			.174				.986		46.28
2331	N	PRO	В	642			.310				.553	No. of the second	43.57
2332	CA	PRO	В	642			.105				.166		40.99
2333	СВ	PRO	В	642		39	.607	-13	.620		.182		40.42
2334	CĢ	PRO	В	642		39	.389	-13	.154	98	.678	1.00	41.18
2335	CD	PRO	В	642		40	.063	-14	.358	99	.351	1.00	42.33
2336	C	PRO	В	642		42	.062	-12	.898	96	.773	1.00	38.73
2337	0	PRO	В	642		42	.234	-12	.022	97	.550	1.00	38.87
2338	N	VAL	В	643		42	.659			95	.580	1.00	36.26
2339	CA	VАL	В	643		43	.631	-11	.916	95	.253	1.00	35.27
2340	CB	VAL	$\mathbf{B}_{\mathbf{a}}$	643		44	.920	-12	.558		.411	1.00	35.78
2341		VAL		643			.284		.734		.921		33.58
2342	CG2	VAL					.782				.815	1.00	34.92
2343	C			643			.508				.775	1.00	36.64
2344	0			643			.123				.922	1.00	38.44
2345	N			644			.893				.428	1.00	33.63
2346	CA	ALA					.132				.975	1.00	33.25
2347	CB			644			.934				.626		29.05
2348		ALA					.585				.637		33.38
2349	0			644			.510				.483		34.78
2350	N			645			.812				.423		34.84
2351	CA			645			.140				.994		34.70
2352	CB			645			.222				.772		36.71
2353		ILE					.794				.011		36.62
2354	CD1			645			.106		-		.739		35.69
2355	CG2			645	•		.668				414		36.76
2356	Ċ			645			.509				.716		35.66
2357	O N			645			.933				.655		33.28
2358	N			646			.576		. 822		.775		37.62
2359	CA			646			.100		.156		.627		39.51
2360	CB	пīЭ	Þ	646		49	.392	-7	713	8/	.934	1.00	40.50

A	В	C	D	Ę		F	G	Н	I	J
2361	CG	LYS	В	646		48.112	-6.902	88.103	1 00	43.92
2362	CD			646		48.459		88.516		51.47
2363	CE			646		48.982	-4.629	87.354		57.30
2364	NZ			646		49.752	-3.453	87.904		62.15
2365	C			646		50.303		87.182		42.10
2366	O.			646			-10.125			43.88
2367	·N			647			-10.323	85.945		45.48
2368	CA			647			-10.990			46.92
2369	CB			647			-12.184	84.508		45.72
2370	OG1			647			-11.807		1.00	
2371	CG2			647			-13.128		1.00	
2372	Ç			647			+10.155	84.313	1.00	
2373	0			647		51.699		83.797	1.00	
2374	N			648			-10.596	84.070	1.00	
2375	CA			648		54.249	-9.855	83.227	1.00	50.53
2376	CB			648		55.590		83.968		49.36
2377	CG			648		56.542		83.642		48.99
2378	CD1			648		58.040		83.579	1.00	
2379	CD2			648		56.116		82.381	1.00	
2380	C			648			-10.784	82.043	1.00	
2381	0			648			-11.893		1.00	52.19
2382	N			649			-10.417	80.869		54.10
2383	CA			649			-11.362	79.756		56.21
2384	CB			649			-10.894	78.487	1.00	
2385	C			649			-11.687	79.395		56.49
2386	0			649			-10.974	79.740		56.04
2387	N			650			-12.811	78.718		56.23
2388				650			-13.049			56.52
2389	CB			650			-14.433	77.525		57.04
2390	C			650			-11.965	77.057	1.00	
2391	0			650			-11.510	76.413	1.00	
2392	N			651			-11.595	76.834	1.00	
2393	CA			651			-10.553	75.873		57.02
2394	C			651		59.312		76.746	1.00	
2395	0			651		59.712		76.347		58.43
2396	N			652		59.366		78.022	1.00	
2397	CA			652		59.573			1.00	
2398	CB			652		59.435	-9.019	80.478		54.77
2399		TYR					-10.134	81.202		56.20
2400		TYR					-11.415	81.380		57.11
2401	CE1			652			-12.382	82.148		54.44
2402	CZ			652			-12.044	82.766		59.06
2403	OH			652			-13.076	83.485	1.00	
2404	CE2			652			-10.787	82.618	1.00	
2405	CD2			652		61.426		81.867	1.00	
2406	C			652		60.713	-7.765	78.455		57.13
2407	Ō			652		61.890	-8.195	78.247		56.27
2408	N			653		 60.253	-6.536	78.165		59.21
2409	CA			653		61.056	-5.309	77.938		61.19
2410		THR				60.410	-4.127	78.740		62.43
2411	QG1			653		58.961	-3.939	78.394		63.91
2412	CG2			653	٠	61.197	-2.732	78.552		59.49
								= +		

-	A	В	C	D.	E		F	G	Н	I	J
	2413	С	THR	В	653		62.510	-5.458	78,383	1.00	62.37
	2414	0			653		63.408	-5.096	77.655	1.00	63.93
	2415	N	ALA				62.748	-6.047	79.537	1.00	
	2416	CA	ALA				64.118	-6.339	80.065	1.00	
	2417	СВ	ALA				65.181	-6.632	78.995		68.35
	2418.	Ċ	ALA				64.482	-5.184	80.915		67.15
	2419	0	ALA				65.452	-5.259	81.675		68.11
	2420	N			655		63.683		80.723	1.00	65.70
	1.1	CA	LYS				63.542	-3.126	81.715		64.02
	2422	СВ	LYS				64.033	-1.755	81.277		64.04
	2423	CG	LYS			•	62.873	-0.760	81.003		62.73
	2424	CD			655		62.975	0.659			66.52
_	2425	CE	LYS		-	. ,	61.719	1.600	81.419		70.62
•	2426		LYS				61.431	3.073	82.018	1.00	71.15
		C	LYS				62.035	-3.062	81.945	1.00	64.99
	2428	0	ĻYS			,	61.594	-2.189	82.707		65.05
	2429	N	ALA				61.184	-3.849	81.273	1.00	
	2430	CA			656		59.741	-3.683	81.659		63.59
	2431	СВ			656		58.729	-4.389	80.698		63.21
	2432	C	ALA				59.776	-4.378 .			63.77
	2433	0			656		59.045	-4.059	83.953	1.00	65.32
	2434	N	ALA				60.688	-5.343	83.081	1.00	
	2435	CA	AĻĄ				60.896	-5.994	84.326	1.00	
	2436	CB	ALA				62.153	-6.830	84.259	1.00	62.87
	2437				657.		60.921	-5.063	85.578	1.00	61.39
	2438	Ó	ALA				60.315	-5.374	86.615	1.00	60.78
	2439	N	VAL				61.571	-3.906	85.517		
	2440	CA	VAL				61.752	-3.219	86.804	1.00	60.46
	2441	СВ	VAL				62.852	-2.176	86.857	1.00	60.81
	2442	CG1			658.		64.200	-2.834	86.665	1.00	62.51
	2443	CG2	VAL				62.560	-1.118	85.803	1.00	62.91
	2444	С	VAL			-	60.583	-2.403	87.005	1.00	59.81
	2445	0 .	VAL	В	658		60.146	-2.289	88.146	1.00	58.61
	2446	N	ASP		659		60.080	-1.838	85.890	1.00	58.44
	2447	CA	ASP	В	659		58.911	-0.960	85.994	1.00	57.85
	2448	CB	ASP	Ŗ	659		58.611	-0.274	84.666	1.00	58.73
	2449	CG	ASP	В	659		59.082	1.150	84.657	1.00	62.54
	2450	OD1	ASP	В	659		59.986	1.499	83.839	1.00	65.80
	2451	QD2	ASP	В	659		58.612	1.992	85.486	1.00	70.42
	2452	C	ASP	В	659		57.696	-1.717	86.556	1.00	55.40
	2453	0	ASP	В	659		56.889	-1.170	87.285	1.00	54.47
	2454	N	PHE	В	660		57.645	-2.993	86.222	1.00	53.30
	2455	CA	PHE	В	660		56.616	-3.893	86.688	1.00	51.47
	2456	CB	PHE	В	660	,	56.687	-5.210	85.888	1,00	50.03
	2457	CG			660		55.699	-6.247	86.324	1.00	45.78
	2458	CD1	PHE	В	660		54.375	-6.154	85.964	1.00	42.78
	2459	CE1	PHE	В	660		53.495	-7.117	86.364	1.00	29.42
	2460	CZ	PHE	В	660		53.919	-8.122	87.106	1.00	35.70
	2461	CE2	PHE	В	660		55.234	-8.230	87.541		34.32
	2462	CD2			660		56.092	-7.299	87.134		41.88
	2463	С			660			-4.159			51.98
	2464	0	PHE	В	660		55.970	-3.826	88.979	1.00	53.32

	A ,	В	C	D	E		F	G	H :	I.	J
	2465	N	LEU	В	661		57.867	-4.818	88.587	1.00	51.16
	2466	CA	LEU				58.052	-4.986	90.025		49.90
	2467	СВ	LEU		661		59.410	-5.608	90.304		50.17
	2468	CG	LEU		661		59.401	- 7.101	89.967	1.00	49.47
	2469	CD1	LEU		661		60.075	- 7.725	91.087	1.00	49.31
	2470	CD2	LEU				58.040	-7.634	90.013	1.00	
	2471	C .			661		58.084	-3.654	90.722	1.00	
	2472	Ō	LEU				57.712	-3.584		1.00	
	2473	N	GLY				58.555	-2.595	90.098	1.00	
	2474	CA	GLY				58.683	-1.340	90.803	1.00	
	2475	C	GLY				57.361	-0.929	91.466		
	2476	0	ĠĻŸ				57.336	-0.347	92.600	1.00	
	2477	N	GLŲ				56.258	-1.222		1.00	
	2478	CA	GLU			• .	54.970	-0.787	91.194		43.00
	2479	CB	GLU			¥.	53.843	-1.079		1.00	
	2480	CG	GLU			•	52.554	-1.313	91.003	1.00	
	2481	CD	GLU				51.261	-1.147	90.298		55.99
	2482		GLU				50.348	-0.344	90.786		56.46
	2483	OE2	GLU	-			51.131	-1.926			62.78
	2484	C	GLU				54.735	-1.449			40.69
	2485	0	GLU				54.243	-0.836	93.429	1.00	
	2486	N			664		55.147	-2.699			41.23
	2487	CA	ALA				54.964	-3.521	93.768		42.51
	2488	CB	ALA				55.361	-4.924	93.525	1.00	40.07
:	2489	C	ALA				55.811	-2.917	94.871	1.00	
	2490	o .	ALA				55.438	-2.924	96.042	1.00	
	2491	N	GLY				56.960	-2.374	94.476		
	2492	CA	GLY				57.931	-1.819	95.439		43.94
•	2493	C	GLY				57.330	-0.667	96.169	1.00	
	2494	Ō	GLY				57.462	-0.519	97.381	1.00	
	2495	N			666		56.629	0.158	95.425	1.00	
	2496	CA			666		55.965	1.280	96.055	1.00	
		CB	ILE.				55.513	2.167	94.932	1.00	43.27
	2498	CG1	ILE				56.724	2.800	94.203		40.47
	2499	CD1	ILE				56.305	3.460	92.869		45.35
	2500	CG2	ILE				54.692	3.137	95.468	1.00	
	2501	C .	ILE				54.729	0.884		1.00	43.44
	2502	0			666		54.624	1.234	98.167	1.00	43.04
	2503	N.	MET	В	667		5 5 5	0.140	96.328		42.32
	2504		MET				52.569		96.938		42.19
	2505	СВ	MET				51.932	-1.230	95.817		41.53
	2506	CG	MET			•	51.176	-2.507			47.32
	2507	SD	MET				49.731	-2.572	94.829		52.61
	2508	CÉ	MET			-	50.549	-1.966			44.11
	2509	Ç	MET				52.855	-1.095	98.259		40.97
-	2510	Ó	MET			-	52.115	-1.057			40.07
	2511	N			668		53.973		98.310		41.23
	2512	CA	GLY				54.340	-2.512	99.534		40.60
	2513	C			668		54.751		100.685		40.90
		0					54.848		101.852		40.12
	2515		GLN				54.995		100.355		42.10
	2516.	ÇA							101.398		41.36
								_	-		

A	В	,C	D	E			F	G			H	I	J
2517	СВ	GLN	В	669			55.949	1.7	43	100	.749	1.00	40.50
2518	CG	GLN	В	669			57.369			100		1.00	44.93
2519	CD	GLN	B.	669			57.848	2.8			.700	1.00	53.63
2520	OE1	GLN	Ŗ	669			57.922				.272		
2521	NE2	GLN	В	669			58.134	2.6			.409	1.00	51.35
2522	Ċ	GLN	В	669			53.996	1.1	02		.075	1.00	43.35
2523	Q	ĢLŅ	B.	669			54.128	1.7	53	103	.081	1.00	45.25
2524	N .	PHE	В	670			52.769	0.8	33	101		1.00	41.08
2525	CA	PHE	В	670			51.612	1.3	98	102	.134	1.00	37.80
2526	CB	PHE	В	670			50.688	2.0	45	101	.056	1.00	37.43
2527	CG	PHE	В	670			51.446	2.9	12	100	.086	1.00	36.83
2528	CD1	PHE	В	670			51.220	2.8	68	.98	.724	1.00	36.12
2529	CE1	PHE	В	670			51.971	3,.6		97	. 852	1.00	41.89
2530		PHE	В	670	•		52.941	4.5			.359	1.00	43.63
2531	CE2		Ŗ	670			53.078			99		1.00	39.81
2532	CD2	PHE		670			52.356			100		1.00	34.13
2533	С	PHE	В	670			50.888	0.3			.865	1.00	35.75
2534	0		В	670			51,117	-0.7				1.00	31.50
2535	N	SER		671			50.178			103		1.00	35.37
2536	CA	SER		671			49.179				. 556	1.00	35.63
2537	СВ	SER		671			49.795	-0.9					37.05
2538	OG	SER		671			48.754	-1.4				1.00	35.05
2539	C,	SER		671			48,009			105		1.00	35.05
2540	0	SER		671			48.061			106		1.00	36.76
2541	N	HIS		672		-	46.930	0.9		104		1.00	33.56
2542	CA	HIS		672			45.871				.659		34.12
25,43	CB	HIS		672		•	46.232			.103		1.00	32.36
2544			В	67.2			45.251			104			33.02
2545 2546			В	672			44.080			103			33.28
2546 2547	CE1 NE2	HIS HIS	B B	672 672			43.406 44.044			104 105		1.00	34.10
2548		HIS	. "	672			45.198	۶.٥ 5.1		105		$1.00 \\ 1.00$	38.41
2549	C C	HIS	В	672			44.633	1.3		103			38.63
2550	0	* * **	В	672	,		44.733			102		1.00	33.41
2551	N	HIS		673			43.502			104			30.53
2552	CA		В	673			42.230			104		1.00	31.97
2553	CB		В	673			41.296	1.8			.206	1.00	30.58
2554	CG.	HIS		673			39.877			105		1.00	37.08
2555		HIS	_				39.369			105			42.49
2556		HIS					38.051			105			43.15
2557	NE2	HIS	В	673			37.690			104			31.71
2558	CD2	HIS	В	673			38.814			104.			39.22
2559	С	HIS					41.832			102			33.87
2560	0	HIS	В	673			40.989	0.9	10	102	. 229	1.00	34.38
2561	N	ASN	В	674	^	٠	42.323			102		1.00	33.75
2562	CA	ASN		674			41.797			101			32.88
2563	CB	ASN	В	674			41.166			101			30.97
2564	CĢ	ASN	В	674			39.921	4.4	12	102	.092	1.00	31.43
2565		ASN					38.806	3.9	59	101	636	1.00	30.88
2566		ASN					40.022	5.1		103			20.74
2567	C ·	ASN					42.854			100			31.69
2568	Ò	ASN	В	674			42.730	3.5	87	99	.082	1.00	30.93

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2569
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           ILE B 675
                            43.861
                                      2.055 100.334
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2570
      CA
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                            44.993
                                      1.813
                                              99.460
           ILE
                                                       1.00 30.93
2571
                 675
      CB
           ILE
               В
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                                      2.205
                                            100.110
                                                       1.00 31.44
2572
           ILE
                            46.250
                                      3.687
                                             100.454
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               В
                 675
                                                       1.00 28.51
2573
      CD1
           ILE
                 675
                            46.340
                                      4.549
                                              99.164
               В
                                                       1.00 31.74
2574
      CG2
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                            47.486
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               В
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                                                       1.00
                                                            22.20
2575
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                  675
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                                                            34.26
2576
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           ILE
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                                                            36.44
2577
      N
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                                              97.964
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                                                       1.00 35.23
2580
      CG1 ILE
               В
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                            44.509
                                     -3.132
                                              95.837
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2581
      CD1
          ILE
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                            42.941
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                                              96.042
                                                       1.00 39.25
2582
      CG2 ILE
               В
                 676
                            46.229
                                     -1.573
                                              95.495
                                                       1.00 35.77
2583
      Ç
           ILE
                  676
                                     -2.067
                                              98.326
               . B
                            46.143
                                                       1.00 34.50
2584
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           ILE
                                     -1.536
                                              98.234
               В
                  676
                            47.226
                                                       1.00
                                                            33.39
2585
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           ARG
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                  677
                                     -6.024 103.587
                                                       1.00 55.86
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                  677
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                                              97.993
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           LEU
               В
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                            49.115
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                                              98.837
                                                       1.00 33.13
2597
      CA
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               B 678
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                                              98.197
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                                             98.159
                                     -5.236
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                                              97.415
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                                              95.980
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           LEU
               в 678
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           LEU
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                                     -6.970
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                                                       1.00 40.71
2604
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           GLU
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               В
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                                                       1.00 55.14
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           GLU B 679
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2613
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           GLY B
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                                              97.972
                                                       1.00 41.28
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      CA
           GLY
               В
                  680
                            53.256
                                   -10.180
                                              97.623
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                                              96.127
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                            52.890 -9.669
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           GLY B 680
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2617
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      CA
2618
           VAL B 681
                            55.060 -10.858
                                              94.316
                                                       1.00 47.33
2619
      CB
           VAL B 681
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                                              93.916
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2620
      CG1 VAL B 681
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                                                       1.00 47.53
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      CG2
           VAL B 681
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                                              94.630
      C
2622
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                                              94.003
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2623
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                                              94.891
                                                       1.00 48.56
2624
      Ν
           ILE B 682
                            55.785 -12.422
                                              92.707
                                                       1.00 50.88
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A	В	Ċ	D	E		F	G	Н	I	J
2625	CA	ILE	В	682		56.648	-13.445	92.194	1 00	52.35
2626	CB			682			-14.781	92.219		52.57
2627	CG1	ILE					-14.850	91.771		54.23
2628	CD1	ILE		682	Ĺ		-16.059	92.607		42.89
2629	CG2	ILE		682	•		-14.986	93.632	1.00	
2630	Ç	ILE		682		57.528	-13.017	91.033		54.22
2631	Õ	ILE		682		57.085		89.997	1.00	54.69
2632	N	SER				58.806		91.420	1.00	56.54
2633	CA	SER					-12.729	90.672	1.00	59.27
2634	CB	SER					-11.648	91.417	1.00	57.57
2635	OG	SER					-12.079	92.783	1.00	
2636	Ç	SER	В	683		60.691	-14.088	90.824	1.00	60.75
2637	Ó	SER	В	683		60.093		91.285	1.00	61.98
2638	N	ALA	В	684		61.921	-14.287	90.467	1.00	64.16
2639	CA	ALA	В	684		62.404	-15.660	90.662	1.00	65:44
2640	CB	ALA	₿	684		62.426	-16.045	92,155	1.00	65.45
2641	С	ALA	В	684		61.607	-16.690	89.844	1.00	65.59
2642	0	ALA	В	684		62.156	-17.667	89.411	1.00	66.62
2643	N	TYR	В	685		60.320	-16.489	89.629	1.00	65.92
2644	CA	TYR	В	685		59.566	-17.433	88.808	1.00	65.61
2645	CB	TYR	В	685		58.513	-18.132	89.646	1.00	66.23
2646	CG	TYR	В	685			-19.196	90.468	1.00	69.68
2647	CD1	TYR	В	685		59.519	-18.961	91.769	1.00	67.64
2648	CE1	ŢYR	В	685			-19.935	92.519	1.00	71.61
2649	CZ	TYR.	В	685			-21.157	91.970	1.00	74.46
2650	OH	TYR	В	685	•		-22.113	92.750	1.00	75.04
2651		TYR				60,081	-21.448	90.663	1.00	75.00
2652	CD2						-20.453	89.905	1.00	75.26
2653	C	TYR					-16.788	87.581	1.00	65.25
2654	0	TYR					-15.527	87.499		66.17
2655	N	ALA		686		58.551	-17.617	86.612	1.00	63.68
2656	ÇA	ALÀ		686			-17.091	85.334		62.32
2657	СB	ALA					-17.805	84.124	1.00	63.30
2658	C	ALA					-17.082	85.432	1.00	62.05
2659	<u> </u>			686			-18.119	85.775	1.00	63.53
2660	N			687				84.593		60.53
2661	CA		В	687		55.343	-15.047		1.00	58.99
2662	CB		_	687			-15.447	84.418	1.00	58.56
2663	CG			687			-16.897	84.821		60.26
2664	CD			687			-17.326	84.077		61.17
2665	C .			687			-14.602	86.037		56.90
2666 2667	0	PRO					-15.358	86.974		56.82
	N	MET		688			-13.428	86.143		55.27
2668 2669	CA CB	MET MET		688 688	,		-12.750 -11.566	87.404		54.44
2670	CG	MET		688			-11.566 -11.932	87.255 86.692		55.33 55.74
2671	SD	MET	В	688			-11.932	87.530		60.68
2672	CE	MET				60.394	-9.447	86.370	1.00	57.44
2673	CE	MET		688			-12.281	87.695		53.73
2674	0	MET		688			-11.957	86.766		55.62
2675	N	MET		689			-12.326	88.964	1.00	49.82
2676	CA	MET					-11.945	89.372		45.50
_9.0		به بیده ه	_			24.244	44.747	٠,٠,٠	- · Ų U	±3.50

A	В	Ç	D	E		F	G	Н	I	Ĵ
2677	CB	MET	В	689		52.726	-13.198	89.919	1.00	46.09
2678	CG	MET					-14.107	88.832		42.85
2679	SD	MET		689			-15.683	89.528	1.00	50.11
2680	CE	MET		689		50.901		88.146		42.03
2681	C	MET		689		53.460		90.439	1.00	44.44
2682	0	MET		689		54.468		91.193	1.00	43.66
2683	N	ILE		690		52.546	-9.929	90.420	1.00	40.55
2684	CA	ILE		690	,	52.358		91.483	1.00	39.05
2685	CB			690		52.225	-7.585		1.00	41.79
2686	CG1	ILE		690		53.596		90,607	1.00	40.50
2687	CD1	ILE		690		53.501		89.890	1.00	37.73
2688	CG2	ILE				51.421	-6.707	91.895	1.00	38.75
2689	C	ILE		690		50.932	-9.386	91.986	1.00	38.72
2690	0 :	ILE		690		49.971	-9.343	91.192	1.00	36.41
2691	N			691		50.807	-9.788	93.255	1.00	38.28
2692	CA			691		49.587		93.856	1.00	37.73
2693	CB	ILE		691		,	-11.537	94.642	1.00	37.57
2694	CG1	ILE		691	-		-12.539	93.759	1.00	
2695	CD1	ILE		691			-13.030	92.551		43.78
2696	CG2	ILE		691			-12.175	95.178	1.00	33.95
2697	C			691		48.965		94.809	1.00	37.68
2698	0			691		49.621		95.803	1.00	38.31
2699	N	THR		692		47.707	-8.901	94.597	1.00	36.61
2700	CA	THR				47.089	-7.867	95.484	1.00	35.83
2701	СВ	THR		692		46.777	-6.579	94.767	1.00	34.36
2702	OG1	THR				46.064	-6.922	93.582	1.00	36.12
2703	CG2	THR				48.064	-5.799	94.178	1.00	32.38
2704	C	THR				45.788	-8.406	96.022		36.80
2705	0	THR	В	692		45.333	-9.470	95.601		38.54
2706	N	GLU	В	693		45.145	-7.663	96.924	1.00	
2707	CA	GLU	В	693		43.857	-8.165	97.503		36.04
2708	CB	GLU	В	693		43.424	-7.317	98.719	1.00	33.77
2709	CG	GLU	В	693		43.251	-5.824	98.385	1.00	36.54
2710	·CD	GĻŪ	В	693		42.731	-4.903	99.522	1.00	37.60
2711	OE1	GLU	В	693		43.250	-3.736	99.716	1.00	38.54
2712	OE2	GLU	В	693		41.720	-5.266	100.137	1.00	42.02
2713	С	GLU	В	693		42.821	-8.028	96.364	1.00	35.07
2714	· O	GLU	₿	693		42.890	-7.067	95.588	1.00	35.55
2715	N	TYR	В	694		41.845	-8.911	96.272	1.00	32.10
2716	CA	TYR	В	694		40.970	-8.809	95.150	1.00	28.28
2717	CB	TYR	В	694		40.440	-10.153	94.874	1.00	28.39
2718	CG	TYR	В	694		39.351	-10.217	93.769	1.00	32.24
2719	CD1		В	694			-9.921	92.416	1.00	28.95
2720	CE1	TYR	В	694		38.566	-10.081	91.432	1.00	33.82
2721	CZ			694	٠.		-10.533	91.790		31.62
2722	ΟΉ	TYR			•		-10.655	90.899		37.93
2723		TYR					-10.758	93.113		35.35
2724	ÇD2	TYR					-10.619	94.080		35.75
2725	С	TYR				39.814	-7.896	95.538		28.69
2726	0	TYR				39.243				28.77
2727	N	MET				39.475				25.99
2728	CA	MET	Ŗ	695		38.480	-6.015	94.790	1.00	28.69

	A - '	В	С	D	E		F	G	Н	ıĪ	Ĵ
	2729	СВ	MET	В	695		39.057	-4.593	94.582	1.00	27.01
	2730	CG	MET				40.089	-4.121	95.806	1.00	26.26
	2731	SD			695		39.137	-4.002	97.332	1.00	29.69
	2732	CE	MET	В	695		38.140	-2.317	96.950	1.00	19.49
		C		В	695		37.337	-6.451	93.887	1.00	30.89
	2734	0	MET	В	695	,	37.371	-6.254	92.716	1.00	35.87
	2735	N	GLU		696		36.406	-7.188	94.437	1.00	31.23
	2736	CA	GĿU	В	696		35.369	-7.846	93.720	1.00	32.82
	2737	CB	GLU	В	696		34.419	-8.666	94.666	1.00	30.79
	2738	CG	ĢLU	B	696		33.717	-7.643	95.469	1.00	38.13
	2739	CD	GLŲ	В	696		33.271	-8.107	96.846	1.00	48.34
	2740	OE1	GLU	В	696		32.877	-9.291	96.897	1.00	61.33
	2741	OE2	GLU	В	696		33.160	7.330	97.803	1.00	43.84
	2742	C	GLU	В	696		34.529	-7.028	92.836	1.00	32.02
	2743	O.	ĞLU				33.781	-7.625	92.021	1.00	31.01
	2744	N	ASN				34.505	-5.694	92.943	1.00	33:21
	2745	CA	ASN	В	697		33.694	-4.999	91.904	1.00	31.07
	2746	CB	ASN				32.725	-4.026	92.537	1.00	30.83
	2747	CG	ASN		697		31.440	-4.657	92.940	1.00	34.34
	2748	~ _ _				•	30.947	-5.594	92.243	1.00	34.99
	2749	ND2	ASN			•	30.834	-4.156	94.055	1.00	28.78
	2750	C	ASN	-	697		34.630	-4.265	90.926	1.00	31.59
	2751	0	ASN				34.193	-3.413	90.103	1.00	31.69
	2752	Ņ	GLY				35.910	-4.526	90.990		29.27
	2753	CA	GLY				36.768	-3.815	90.060	1.00	29.77
	2754	C .	GLY				36.882	-2.261	90.054	1.00	
	2755	0	GLY				36.746	-1.550	91.056	1.00	31.76
	2756	-N	ALA				37.160	-1.773	88.888		27.39
	2757	CA	ALA				37.387	-0.402	88.524		26.35
	2758	CB			699		37.888	-0.293	87.086	1.00	25.30
	2759	C	ALA			-	36.179	0.215	88.629	1.00	27.91
	2760	0	ALA		699		35.168	-0.299	88.130	1.00	30.28
	2761	Ŋ	LEU		7.00	٠	36.280	1.357	89.268		29.27
	2762 2763	CA CB	LEU LEU		700 700		35.121 35.450	2.026 3.069	89.707 90.838	1.00	.32.33
	2764	СG	LEU	В	700		34.459	4.089	91.301	1.00	29.30 31.76
	2765	CD1	LEU		700		33.464	3.627	92.353	1.00	30.61
	2766		LEU		700		35.145	5.322	91.920	1.00	28.14
	2767	C			700		34.449	2.671	88.617		30.67
	2768	0	LEU		700		33.279	2.926	88.812		32.59
	2769	N	ASP		701		35.175	3.092	87.584		28.67
	2770	CA			701		34.475	3.801	86.542		33.44
	2771	СВ			701		35.382	4.505	85.575		33.00
	2772	CG			701		36.230	3.542	84.702		38.53
	2773		ASP				36.810		85.221		37.75
	2774		ASP		701		36.395	3.751	83.440		40.32
	2775	C .	ASP		701		33.529	2.791	85.837	1.00	
	2776	0	ASP		701		32.301	3.048	85.715		32.42
	2777	N			702		34.074	1.635	85.538		30.90
	2778	CA	LYS	В	702		33.249	0.568	84.960		35.12
	2779	CB	ĻYŞ	В	702		34.186	-0.548	84.449		37.13
-	2780	CG	LYS	В	702		33.542	-1.537	83.686	1.00	47.55

	A	В	С	D	Е			F	G G	Н	I	J
	2781	CD	LYS	В	702			34.296	-2.821	83.631	1.00	60.43
	2782	CE	LYS	В	702			33.493	-3.758	82.740	1.00	63.91
	2783	NZ		В				34.151		82.655		69.98
	2784	С		В	702			32.158	0.088	85.872	1.00	35.34
	2785	Ö	LYS	В	702			31.006	-0.038	85.504	1.00	36.22
	2786	N-	PHE	В	703			32.421	-0.020	87.179	1.00	37.97
	2787	CA		В	703			31.403	-0.517	88.060	1.00	34.72
	2788	СВ	PHE	В	703			31.980	-0.605	89.436	1.00	35.11
	2789	CG ·		B	703			30.985	-0.877	90.473	1.00	29.25
	2790	CD1		В	703			30.252	-2.115	90.505	1.00	27.25
	2791	CE1	PHE		703			29.389	-2.361	91.525		29.92
	2792	CZ	PHE		703			29.256	-1.467	92.569	1.00	29.83
	2793	CE2	PHE		703			29.913	-0.313	92.538	1.00	29.77
	2794	CD2	PHE					30.785	0.001	91.443	1.00	
	2795	C C			703			30.265	0.452		1.00	30.63
•	2796	0	PHE					29.032	0.086	88.121		36.80
	2797		LEU		704			30.622	1.724	88.137	1.00	37.46
	2798	CA		В	704	4.		29.567	2.730	88. <u>1</u> 57 88.283		36.09
	2799	CB	LEU	В	704				4.112			35.58
	2800	CG	LEU					30.162		88.554		36.04
	2801	and the first of	,	В	704			30.722	4.526	89.921	1.00	39.33
	2802	CD2	LEU		704 704			31.453		89.856	1.00	39.49
	2803	-		В				29,689	4.488 2.859	91.097	1.00	39.49
					704			28.723		87.005	1.00	35.48
	2804	O	LEU		704			27.545	3.304	87.050	1.00	36.13
	2805	N	ARG		705			29.342	2.607	85.865	1.00	36.71
		CA	ARG		705			28.645	2.652	84.601		37.41
	2807	CB	ARG		705			29.599	2.330	83.433	1.00	37.84
	2808	.CG	ARG		705			30,260	3.590	82.802	1.00	34.77
	2809	CD	ARG		705		٠	30,660	3.455	81.367	1.00	41.95
	2810	NE	ARG		705			31.988	2.810	81.271		42.52
	2811	CZ	ARG		705			33.068	3.374	81.792	1.00	45.05
	2812	NH1	ARG		705			34.261	2.852	81.678	1.00	42.04
	2813	NH2	ARG		705			32.913	4.565	82.399	1.00	40.02
	2814	C	ARG		70.5			27.609	1.598	84.550	1.00	40.12
	2815	0	ARG			•		26.733	1.639	83.716		43.46
	2816	N	GLU		706			27.773	0.561	85.322	1.00	41.24
	2817	CA	GLU	В	706			26.916		85.216		43.79
	2818	CB	GLÜ					27.684	-1.832	85.558		46.45
	2819	CG	GLU.					28.385	-2.583	84.416		53.31
	2820	CD	GLU					29.070	-3.871	85.011		65.10
	2821	OE1	GLU.					28.273	-4.757	85.532		68.07
	2822	OE2						30.368	-4.034	84.995		63.05
	2823	Ç.	GLU					25.852	-0.364	86.216		43.47
	2824	0	GLU		706			24.864	-1.051	86.164		45.43
	2825	N	LYS		707			26.029	0.565	87.117		43.14
	2826	CA	LYS		707			25.013	0.851	88.098		44.44
	2827	CB	LYS		707	•		25.584	0.449	89.490		46.43
	2828	CG	LYS					26.172	-1.029	89.491		44.84
	2829	CD	LYS					25.573	-,1.880	90.569		43.24
	2830	CE	LYS		707			25.352	-3.405	90.147		48.65
	2831	NZ	LYS		707		,	24.010	-3.911	90.629		46.05
	2832	С	LYŚ	В	707			24.448	2.319	88.048	1.00	43.63

Express Mailing No. EV327523004US
Docket No. SYR-EPHA2-5001-C1
Sheet 60 of 90

A	В	С	D	E			F	G	H	Ť	J
2833	0	LYS	В	707			23.968	2.911	89.012	1.00	43.30
2834	N			708			24.510	2.886	86.899	1.00	43.40
2835	CA	ASP		708			24.061	4.208		1.00	45.41
2836	CB	ASP	В	7.08			23.816	4.329	85.214	1.00	45.17
2837	CG	ASP	В	708			23.571	5.756	84.769	•	51.04
2838	OD1	ASP	В	708			23.369	5.861	83.513	1.00	56.65
2839	OD2	ASP	В	708			23.578	6.789	85.536	1.00	50.26
2840	C		В	708			22.776	4.514	87.400	1.00	46.40
2841	Ö		В	708		,	21.809	3.760	87.256	1.00	48.89
2842	N	GLY		709			22.748	5.610	88.155	1.00	45.59
2843	CA	GLY		709			21.516	6.076	88.791	1.00	45.68
2844	C	GLY		709			21.043	5.454	90.056	1.00	45.97
2845	Ö	GLY		709		٠,	20.134	5.987	90.790	1.00	45.98
2846	N	GLU		710			21.713	4.355	90.402	1.00	46.33
2847	CA	GLU		710			21.266	3.524	91.498		44.07
2848	CB	GLU		710		٠	21.639	2.091	91.156		43.37
2849	CG	GLU		710			21.240	1.530	89.788		45.17
2850	CD			710			21.407	0.012	89.910	1.00	50.33
2851	OE1	GLU		710			21.591	-0.451	91.103		57.24
2852	OE2	GLU		710			21.522	-0.675	88.894	1.00	45.95
2853	C	GLU		710	-		21.845	3.640	92.888	1.00	45.39
2854		GLU		710			21.521	2.760	93.718	1.00	47.34
2855	N	PHE		711			22.760	4.543	93.196	1.00	43.13
2856	CA		В	711			23.200	4.589	94.566	1.00	40.55
. 2857	CB	PHE		711			24.679	4.658	94.597	1.00	39.03
2858	CG	PHE		711			25.276	3.409	94.246	1.00	42.05
2859	CD1	PHE		711			26.050	3.281	93.108	1.00	38.47
2860	CE1		В	711			26.599	2.064	92.802		39.65
2861	CZ	PHE		711	• •		26.275	0.880	93.622		41.38
2862	CE2	PHE		711			25.452	1.062	94.740		34.06
2863	CD2		В	711			24.989	2.245	95.050	1.00	37.46
2864	C	PHE		711			22.626	5.863	95.009	1.00	40.79
2865	0		В	711			22.154	6.588	94.204	1.00	41.46
2866		SER		712			22.638	6.126	96.287	1.00	42.27
2867	CA	SER		712		-	22.217	7.392	96.828	1.00	43.06
2868	CB	SER		712			22.065	7.169	98.297	1.00	41.23
2869	OG	SER		712			23.405	7.227	98.787	1.00	49.09
2870	С	SER	В	712			23.457	8.292	96.753	1.00	43.66
2871	0	SER	В	712			24.613	7.773	96.636		
.2872	N	VAL					23.235	9.574	96.953		42.17
2873	CA	VAL		713			24.207	10.574	96.853		42.95
2874	СВ	VAL		713			23.524	11.961	97.062		44.89
2875	CG1	VAL		713			24.513	13.096	97.189		44.06
2876		VAL					22.675	12.272	95.826		48.34
2877	C	VAL	В	713			25.151	10.328	97.995	1.00	43.30
2878	0	VAL		713			26.361			1.00	41.24
2879	N	LEU		714			24.607	9.742	99.082	1.00	42.36
2880	CA	LEU	В	714			25.412	9.441	100.294	1.00	42.34
2881	CB	LEU	В	714			24.549	8.997	101.456	1.00	41.80
2882	CG	LEU	В	714			24.175	10.104	102.419	1.00	45.27
2883		LEU		714			23.237	9.593	103.631	1.00	45.36
2884	CD2	LEU	В	714			25.513	10.577	102.995	1.00	43.80

Α	В	С	D	E .			F		Ģ		H	I	J
2885	C	LEU	В	714		26	.436	. 8.	393	99	.951	1.00	40.57
2886	O		В	714			.671		526		.117	1.00	40.01
2887	N		В	715			.900		402		.314	1.00	
2888	CA			715			.755		362		.870	1.00	40.81
2889	СВ	GLN	В	715			.933		288		.183		40.42
2890	CG		В	715			.177		515		.255	1.00	40.01
2891	CD .		В	715			.070		635		.723	1.00	44.67
2892	OE1	GLN	В	715			.548		831		.622	1.00	44.92
2893	NE2	GLN		715			.716		651		.517		48.08
2894			В	715			.860		935		.036	1.00	39.80
2895	ö		В	715			.054		675		.339	1.00	42.92
2896	N		В	716			.532		760		.064	1.00	36.73
2897	CA		В	716	,		.556		274		,227	1.00	35.84
2898	СВ	LEU		716			.903		036		.104	1.00	37.36
2899	CG	LEU	В	716			.084		148		.217	1.00	36.58
2900	CD1			716			.356		177		.311	1.00	46.24
2901	CD2			716			.996		350		.371	1.00	37.81
2902	C ,	LEU	В	716			.573		163		.975	1.00	36.89
2903	o ·	LEU	В	716			.819		095		.782	1.00	36.93
2904	N	VAL	В	717			.051		026		.831	1.00	37.35
2905	CA	VAL	В	717			.898		905	,	.613	1.00	36.10
2906	СВ	VAL	В	717			.967		708		.387	1.00	37.20
2907				717			.667				.344	1.00	33.48
2908	CG2	VAL		717			.088		401		.375	1.00	38.82
2909	С	VAL					.870		002		.410	1.00	38.05
2910	0	VAL	В	717			.154		206		.454	1.00	37.55
2911	N	GLY	В	718		30	.264	8.	952	99	.981	1.00	36.80
2912	CA	GLY	В	718		3.1	.042	8.	022	100	.772	1.00	33.97
2913	, C	GLY	В	718		32	.163	7.	457	100	.020	1.00	34,81
2914	Ο .	GLY	В	718			.349	7.	436	100	.512	1.00	37.01
2915	N	MET	В	719		31	.892	7.	099	98	.779	1.00	34.31
2916	CA	MET	·⁄Β	71,9			.019	6.	609	97	.959	1.00	31.67
2917	CB	MET	В	719			.491		176	96	.577	1.00	32.74
2918	CG	MET	В	719			.662		841		.825	1.00	35.62
2919	SD	MET		719			.875		103		.295	1.00	55.32
2920	CE	MET		719	•		.945		495		.494	1.00	42.34
2921	C		В	719			.081		610		.784	1.00	30.03
2922	Ο,	MET		719			.279		293		.765	1.00	32.08
2923	N	LEU					.687		847		.618		30.17
2924	CA			720	`		.667		890		.346		33.37
2925	ĊВ	LEU					.986		242		.935		32.33
2926	CG			720			.343		032		.575		38.69
2927		LEU					.375		150		.300		38.75
2928	CD2						.427				.495		35.80
2929	Ç	LEU		720			.489		109		.597		32.85
2930	O			720			.671		336		.518		31.06
2931 2932	Ņ	ARG		721			.809		018		.755		34.48
2932	CA CB	ARG ARĞ					.496 .472				.996 .146		33.62 35.11
2933	CG	ARG					.051				.478		34.63
2935	CD .			721			.575				.326		39.88
2936	NE	ARG					.004				.636		43.02
2,50		بيدين		بديد به					ر بر ن	ڊ ب ـ	. 050		⊒ J.∪&

A	В	C	D	E		, F	, G	Н	Ī	J
2937	CZ	ARG	В	721		36.937	9.323	106.397	1.00	45.17
2938	NH1	ARG		721		37.612	8.271	105.961	1.00	40.58
2939	NH2	ARG	В	721		37.213	9.851	107.611	1.00	38.32
2940	С	ARG		721		36.678	9.202	101.170	1.00	31.50
2941	0	ARG	В	721		37.783	9.594	101.591	1.00	32.33
2942	N	GĻY	В	.722		36.429	7.940	100.919	1.00	30.70
2943	CA	GLY	В	722		37.450	6.885	100.918	1.00	24.89
2944	C	GLY	В	722		38.535	7.253	99.976	1.00	26.45
2945	0 -	GLY	В	722		39.751	7.161	100.307	1.00	27.04
2946	N	ILE	В	723		38.180	7,638	98.764	1.00	24.68
2947	CA	ILE	В	723		39.285	7.928	97.861	1.00	25.69
2948	CB	ILE	В	723		38.728	8.341	96.509	1.00	25.40
2949	CG1	ILĘ	В	723		38.089	7.129	95.744	1.00	23.38
2950	CD1	ILE	В	723		36.956	7.550	94.656	1.00	17.00
2951	CG2	IĻE	В	723		39.915	8.818	95.562	1.00	25.42
2952	C	ILĘ	В	723		40.040	9.056	98.437	1.00	27.97
2953	0	ILE		723		41.273	9.063	98.412	1.00	29.92
2954	N	ALA		724		39.321	10.112	98.878	1.00	27.72
2955	CA	ALA		724		40.055	11.203	99.382	1.00	31.14
2956	CB	ALA		72 4		39.092	12.388	99.837	1.00	30.09
2957	С	ALA		7.24		40.994	10.756	100.578	1.00	32.43
2958	0	ALA		724		42.102	11.293	100.707	1.00	36.23
2959	N			725		40.599	9.778	101.386	1.00	32.15
2960	CA	ALA		725		41.367		102.613	1.00	33.49
2961	CB	ALA		725		40.465	8.568		1.00	31.16
2962	C ·	AĻA		725		42.563	8.658	102.180		33.06
2963	0	ALA		725		43.630	8.759	102.838	1.00	
2964	N			726		42.407	7.837		1.00	
2965	CA	GLY		726		43.519	7.036	100.688	1.00	26.93
2966	C	GLY		726		44.531	8.080	100.151	1.00	31.48
2967	0	GLY		726		45.699	7.946	100.370	1.00	28.56
2968	N	MET	В	727	20	44.033	9.136	99.451	1.00	32:07
2969	CA	MET	В	727		44.899	10.121	98.846	1.00	33.27
2970	CB	MET		727		44.051	10.999	97.853	1.00	33.40
2971 2972	CG SD	MET MET	В	727		43.815	10.423	96.365	1.00	31.54
2973	ÇE	MET	B B	727 727		45.180 46.441	9.612 10.934	95.806 95.492	1.00	35.66
2974	C C	MET	В	727		45.618	10.934	100.018	1.00 1.00	31.92 33.03
2975	0	MET		727		46.780	11.331	99.892		31.10
2976	N -	LYS		728		44.889		101.078	1.00	
2977	CA	LYS		728		45.494		102.185	1.00	
2978	CB	LYS		728		44.516		103.204	1.00	36.03
2979	CG	LYS		728		45.095		104.451	1.00	41.39
2980	CD	LYS		728		44.169		105.549	1.00	49.57
2981	CE	LYS		728		44.504		106.868	1.00	58.31
2982	NZ	LYS		728		44.561	12.303	107.986	1.00	
2983	C			728		46.658	11.233	102.743	1.00	38.33
2984	0	LYS		728		47.792	11.753	103.065	1.00	39.63
2985	N	TYR		729		46.494	9.922	102.617		36.94
2986	CA	TYR		729		47.452	9.075	103.219	1,00	36.82
2987	CB	TYR		729		46.858	7.693		1.00	34.05
2988	CG			729		47.899		103.835		34.37
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Α	В	С	D	E			F	G	H	Ï	J į
2989	CD1	TYR	В	729			48.409	6.323	105.122	1.00	31.09
2990	CE1	TYR		729			49.368	5.343	105.286	1.00	
2991	CZ	TYR		729			49.864	4.733	104.160	1.00	32.58
2992	OH .	TYR		729			50.764	3.772	104.302	1.00	30.28
2993	CE2	TYR		729			49.369		102.863	1.00	28.90
2994	CD2	TYR		729			48.343		102.735	1.00	28.62
2995	C	TYR		729			48.625		102.348		38.24
2996	0.	TYR		729			49.760		102.837	1.00	40.23
2997	N			730			48.419	9.012	101.057	1.00	37.36
2998	CA	LEU		730			49.598		100.182	1.00	38.39
2999	CB	LEU	В	730			49.161	8.801	98.691		38.07
3000	CG	LEU		730	٠.		49.096	7.274	98.506		40.77
3001	CD1			730			48.033	6.879	97.535		46.74
3002	CD2	LEU		730	• •		50.540		98.141	1.00	40.15
3003	C	LEU		730			50.415	10.239	100.271	1.00	36.79
3004	0 -	LEU		730			51.565	10.238	100.325	1.00	35.87
3005	N	ALA		731			49.753	11.330	100.211	1.00	38.07
3006	CA	ALA		731			50.421		100.382	1.00	41.33
3007	CB	ALA		731			49.377	13.802	100.342	1.00	35.88
3008	C	ALA		731			51.191	12.559	101.743	1.00	41.93
3009	Ö	ALA		731			52.353	12.861	101.784	1.00	41.92
3010	N	ASN		732			50.556	12.176	102.837	1.00	43.62
3011	CA	ASN		732			51.340		104.035	1.00	45.24
3012	CB	ASN		732			50.558	11.897	105.275	1.00	45.55
3013	CG	ASN		732			49.605	12.947	105.613		45.67
3014		ASN					49.792	14.047	105.114	1.00	
3015	ND2			732			48.503	12.620	106.390	1.00	42.26
3016	C	ASN		732			52.439	11.247			46.19
3017	Ō	ASN		732			53.250	11.259	104.809	1.00	48.18
3018	N	MET		733			52.475	10.319	102.986	1.00	
3019	CA	MET		733			53.611	9.396	102.967		42.71
3020	СВ	MET	В	733			53.181	8.051	102.457	1.00	43.29
3021	CG	MET		733			52.418	7.229	103.469		44.11
3022	SD	MET		733			53.390	6.662	104.809		45.37
3023	CE	MET		733			54.537	5.722	104.067	1.00	43.23
3024	Ċ.	MET		733			54.473	10.030	101.973	1.00	43.07
3025	Ó	MET		733			55.449	9.447	101.489		39.67
3026	N	ASN	В	734			54.114	11.288	101.639		45.47
3027	CA			734			54.895		100.620	1.00	45.76
3028	СВ	ASN		734			56.293		101.146		48.02
3029	CĢ	ASN		734			56.917		100.855		55.08
3030		ASN		734			57.998		100.227		57.65
3031		ASN		734			56.191		101.227		57.16
3032	C .			734			55.017	11.329	99.233		44.84
3033	Ο.	ASN		734			56.122	11.359	98.598		45.91
3034	N	TYR		735			53.933	10.733	98.723	1.00	
3035	CA	TYR		735			53.846	10.348	97.298	1.00	
3036	CB	TYR		735		• •	53.511	8.904	97.196		42.06
3037	CG			735			54.612	7.939	97.303		39.82
3038	CD1	TYR	Þ	.735			55.073	7.272	96.195	1.00	40.71
3039	CE1	TYR	В	735			56.143	6.364	96.327	1.00	49.17
3040	CZ	TYR	Ŗ	735			56.659	6.076	97.610	1.00	49.26
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	A	В	C	D	E		F	G	Н	I	J
	3041	ОН	TYR	В	735		57.681	5.174	97.808	1.00	53.69
	3042	CE2	TYR	В	735		56.180	6.710	98.706	1.00	46.44
	3043	CD2	TYR	В	735		55.118	7.596	98.563	1.00	44.21
	3044	С	TYR	В	735		52.766	11.131	96.513	1.00	40.01
	3045	0	TYR	В	7.35		51.681	11.403	97.063	1.00	38.30
	3046	N	.VAL	В	736		53.084	11.534	95.242	1.00	39.05
	3047	CA	VAL	В	736		52.155	12.135	94.317	1.00	37.57
	3048	СВ	VAL		736		52.978	12.826	93.220	1.00	40.62
	3049	CG1	VAL	В	736		52.210	13.815	92.384	1.00	40.34
	3050	CG2	VAL	В	736		54.164	13.336	93.780	1.00	46.41
	3051	С	VAL	В	736		51.824	10.887	93.435	1.00	37.17
	3052	0	VAL	В	736		52.735	10.241	92.930	1.00	29.75
	3053	N	HIS	В	737		50.539	10.633	93.185	1.00	37.35
	3054	ÇA	HIS	B	737		50.106	9.466	92.371	1.00	37.48
	3055	CB	HIS	В	737		48.645	9.217	92.703	1.00	37.46
	3056	CG '	HIS	₿	737		48.149	7.922	92.212	1.00	38.36
	3057	ND1	HIS	В	737		47.788	7.709	90.894	1.00	33.89
	3058	CE1	HIS	В	737		47.448	6.446	90.753	1.00	38.45
	3059	NE2	HIS	В	737		47.527	5.845	91.941	1.00	38.58
	3060	CD2	HIS	Ŗ	737		48.022	6.737	92.850	1.00	36.23
	3061	Ċ	HIS	В	737		50.310	9.689	90.885	1.00	37.35
	3062	0	HIS	В	737		50,900	8.930	90.179	1.00	37.49
	3063	N			738		49.921	10.862	90.420		41.12
	3064	CA	ARG		738		50.156	11.215	89.025	1.00	41.82
	3065	CB	ARG		738	•	51.548	10.752	88.576	1.00	42.45
	3066	CG	ARG		738		52,900	11.362	89.171	1.00	43.81
	3067	CD	ARG		738		53.934	12.099	88.306	1.00	50.41
	3068	NE	ARG		738		54.475	11.640	87.014	1.00	59.49
	3069	CZ	ARG	В	738		55.049	10.452	86.751	1.00	66.23
	3070		ARG	В	738		55.115	9.499	87.671	1.00	66.49
	3071	NH2	ARG	В	738		55.533	10.202	85.535	1.00	66.53
*	3072	С	ARG		738		49.061	10.581	88.104		42.10
	3073 3074	O N		В	738		48.853 48.304	11.056	87.025	1.00	42.38
	3074	CA	ASP ASP	В	739 739		47.402	9.578 8.839	88.572	1.00	40.65
	3075	CB		В	739		48.098	7.585	87.683 87.132	1.00 1.00	37.25 36.50
	3077	CG	ASP		739		47.447	7.043	85.859	1.00	39.77
	3078	OD1	ASP	В	739		46.714	7.845	85.259	1.00	35.07
	3079		ASP				47.588	5.843	85.423		38.97
	3080	C	ASP		739		46.159	8.470	88.383		33.96
	3081	ō	ASP		739		45.641	7.385	88.230		3313
	3082	N	LEU		740		45.612	9.440	89.054		32.76
•	3083	CA	LEU		740		44.385	9.304	89.792		32.28
	3084	СВ	LEU		740		44.218	10.378	90.903		28.90
	3085	CG	LEU		740		42.918	10.273	91.633		31.41
	3086		LEU		740		42.750	8.844	92.335		29.24
	3087	CD2	LEU	В	740		42.714	11.301	92.751		31.09
	3088	C	LEU				43.230	9.487	88.854	1.00	33.40
	3089	Ο	LEU				42.972	10.631	88.367		32.41
	3090	N	ALA				42.375	8.464	88.851		32.10
	3091	CA	ALA				41.256	8.492	87.939		31.90
	3092	CB	ALA	В	741		41.795	8.228	86.473	1.00	25.99

Ā	В	C	Ď	E		F	G	Н	I	J.
3093	C.	ALA	В	741		40.361	7.405	88.402	1,00	30.39
3094	0	ALA		741		40.849	6.468		1.00	32.43
3095	N			742		39.091		87.997	1.00	30.00
3096	CA	ALA	В	742		38.230		88.434	1.00	28.92
3097	CB	ALA	В	742		36.771	6.688	88.146	1.00	32.43
3098	C	ALA	В	742		38.702	5.046	87.904	1.00	31.77
3099	Ο.	ALA	В	742		38.551	4.07.8	88.607	1.00	30.25
3100	N .	ARG	В	743		39.282	4.907	86.696	1.00	
3101	CA	ARG	В	743		39.685	3.568	86.348	1.00	32.57
3102	СВ	ARG	В	743		40.311	3.530	84.893	1.00	30.75
3103	CG	ARG	В	743		41.249	4.519	84.625	1.00	29.61
3104	CD	ARG	В	743		42.260	4.076	83.465	1.00	43.52
3105	NE	ARG		743		43.297	5.113	83.400	1.00	45.54
3106	CZ	ARG		743		42.950	6.342	83.147	1.00	45.33
3107	NH1	ARG		743		41.651	6.558	82.868	1.00	38.16
3108	NH2	ARG		743		43.844	7.305	83.199	1.00	38.31
3109	C	ARG		743		40.697		87.291	1.00	32.35
3110	0	ARG		743		41.122	1.917	87.211		33.13
3111	N	ASN		744		41.306	3.909	88.055		33.51
3112	CA	ASN		744		42.357	3.337	88.857	1.00	32.87
3113	CB	*,		744		43.651	4.144	88.701	1.00	33.36
3114	CG	ASN		744		44.393	3.813	87.400	1.00	34.78
3115		ASN		744		44.062	2.792	86.820		48.21
3116	ND2	ASN		744		45.248	4.718	86.851	1.00	31.64
3117	Ç			744		41.888	3.251	90.300	1.00	34.12
3118 3119	O N	ILE		744 745		42.689 40.592	3.242 3.314	91,157	1.00	
3120	CA	ILE		745		40.592	3.314 3.112	90.558 91.861	1.00	32.33
3121	CB	ILE		745	•	39.154	4.230		1.00	31.92 31.00
3122	CG1	ILE		745		39.824	5.704	92.215		32.78
3123	CD1	ILE		745		41.204	5.701	92.993	1.00	32.89
3124	CG2	ILE		745		38.602	3.943	93.507		25.39
3125	Ç	ILE		745		39.347	1.767	91.809	1.00	32.48
3126	Ō	ILE		745		38.592	1.602	90.864	1.00	32.62
3127	N	LEU		746		39.593	0.833	92.752		29.93
3128	CA	LEU		746	1	38.994	-0.526	92.790	1.00	28.79
3129	CB	LEU	В	746		40.047	-1.578	93.158	1.00	27.96
3130	CG -	LEU	В	746		41.188	-1.793	92.142	1.00	
3131	CD1	LEU	В	746		42.431	-2.746	92,482	1.00	36.80
3132		LEU	В	746		40.582	-2.251	90.857	1.00	32.27
3133	Ċ	ĻEU	В	746		37.941	-0.457	93.907	1.00	31.64
3134	0	LEU	В	746		38.176	0.242	94.933	1.00	32.71
3135	N			747		36.752	-1.061	93.727	1.00	32.95
3136	CA			747		35.729		94.751	1.00	33.60
3137	CB			747		34.337	-0.627	94.211		35.06
3138		VAL				33.569	0.153	95.190		32.73
3139	CG2			747		34.311	-0.145	92.802		36.08
3140	С			747		35.379	-2.348	95.139		32.18
3141	0			747		35:438	-3.132	94.271		32.47
3142	N			748		34.809	-2.569	96.331		
3143	CA			748		34.300	-3.873	96.670		32.11
3144	СВ	ASN	R	748		35.076	-4.503	97.805	I.00	29.71

Α	В	· C	D	E		F	G ·	H	Ì	J
3145	CG	ASN	В.	748		34.872	-3.789	99.093	1.00	30.19
3146	OD1	ASN	В	748		34.002	-2.965	99.154	1.00	29.21
3147	ND2	ASN	В	748		35.724	-4.051	100.145	1.00	27.55
3148	С	ASN		748		32.782	-3.847	96.880	1.00	32.91
3149	Ó	ASN	В	748		32.137	-2.821	96.558	1.00	34.46
3150	N	SER	В	749		32.200	-4.931	97.392	1.00	31.86
3151	CA	SER	В	749		30.779	-4.924	97.589	1.00	32.16
3152	CB	SER	В	749		30.203	-6.341	97.762	1.00	33.15
3153	OG	SER	В	749			-7.147	98.772	1.00	33.73
3154	C	SER	В	749		30.390	-4.108	98.724	1.00	33.33
3155	0	SER	В	749		29.213	-3.877	98.965		31.39
3156	N	ASN		750		31.368	-3.666	99.517	1.00	34.87
3157	CA.	ASN		750		30.972		100.547	1.00	35.09
3158	CB	AŞN	В	750		31.781	-2.859	101.809		
3159	CG ·	ASN		750		31.421	-4.146	102.582	1.00	41.91
3160	OD1	ASN		750		30.278	-4.661	102.549	1.00	
3161	ND2	ASN				32.424	-4.652	103.275		46.14
3162	C ·	ASN				31.082	-1.295	100.025	1.00	34.62
3163	0	ASN				30.760	-0.354	100.737	1.00	
3164	N	LĘU				31.385	-1.151	98.738	1.00	31.97
3165	CA	LEU				31.511	0.150	98.134		33.21
3166	CB	LEU		751			1.085	98,379		33.30
3167	CG	LĘU		751		28.944	0.583	97.933		29.08
3168	CD1	LEU		751		27.770	1.538	97.936		34.22
3169	CD2	LEU		751		29.187	0.432	96.569		25.04
3170	Ç	ĻĘU		751		32.774	0.820			31.97
3171		LEU				32.932	1.949			32.37
3172	N	VAL-		752	•		0.112	99.330		31.80
3173	CA	VAL		752		34.884	0.756	99.838		32.23
3174	CB	VAL		752		35.557	-0.206	100.847	1.00	34.25
3175	CG1	VAL		752		36.916	0.159	101.117	1.00	28.08
3176		VAL		752		34.701	-0.310	102.072	1.00	27.86
3177	C	VAL		752		35.761	0.974	98.604	1.00	34.48
3178	0	VAL		752		35.900	0.035	97.753	1.00	33.89
3179	N	CYS		753		36.345	2.183	98.450		34.53
3180	CA CB	CYS CYS		753 753		37.139	2.463	97.238	1.00	- '
3181 3182	SG	CYS		753		36.667 35.024	3.795 3.589	96.590 95.866	1.00	32.57 33.85
3183	C	CYS				38.595	2.504	97.641		32.87
3184	0	CYS		753		38.918	2.994	98.661		33.65
3185	N ·	LYS		754		39.490	2.019	96.815		31.25
3186	CA	LYS		754		40.879	2.069			28.59
3187	CB			754		41.393	0.682	97.601		28.62
3188	CG			754		40.612	0.002			25.26
3189	CD			754			-1.359	99.092		26.47
3190	CE			754		40.451		100.084		31.42
3191	NZ			754		41.028		101.467		36.53
3192	C	LYS		754		41.659	2.488	95.931		29.63
3193	0			754		41.451	1.951	94.764		29.44
3194	N	VAL		755		42.643	3.336	96.190		28.68
3195	CA	VAL				43.512	3.819	95.158		30.76
3196	СB	VAL				44.484	4.852	95.681		29.87

A	В	C	D	E			F	G	H	I	J
3197	CG1	VAL	В	755			45.380	5.460	94.520	1.00	26.20
3198	CG2	VAL	В	755			43.750	5.907	96.257	1.00	28.72
3199	C	VAL	·B	755			44.391	2.708	94.759	1.00	31.83
3200	0	VÁL		755	-		44.894	2.059	95.618		30.86
3201	N	SER		756			44.722	2.641	93.486		33.08
3202	CA	SER		756			45.431	1.545	92.914		36.43
3203	CB	SER		756			44.472	0.481	92.259		37.70
3204	OG	SER		756			45.281	-0.617	91.571	1.00	
3205	C	SER		756	:		46.368	2.061	91.849	1.00	37.72
3206	0	SER		756			46.466	3.263	91.576	1.00	
3207	Й	ASP		757			46.978	1.130	91.147		38.48
3208	CA	ASP		757			47.861	1.499	90.074		41.72
3208	CB	ASP		757			47.023	1.433	88.888		41.72
3210	CG	ASP		757				1.917	87.574		50.91
3210	OD1			757			47.849 47.211	2.091	86.487	1.00	
3211	OD1	ASP		757				1.757	87.558	1.00	
3212	C	ASP		757			49.141	2.490	90.467	1.00	
3213		ASP		7.57		-	48.943		90.267		41.65 41.11
3214	O N	PHE		758	**		50.076	3.671 1.995	91.048	1.00	
3215	CA			758				2.948			
3217		PHE					51.087		91.493		44.14
3217	CB			758 758	•		51.525	2.631 2.888	92.952	1.00	
3219	CG CD1	PHE					50.456		93.920		
	CE1			758			50.308	4.177	94.499		33.03
3220		PHE		758 758			49.233	4.488	95.392 95.734		.33.75
3221	CZ CE2	PHE					48.282	3.458			35.68
3222		PHE		758			48.419	2.141	95.050		35.33
3223	CD2	PHE		758			49.531	1.901	94.184		37.29
3224	C	PHE		758			52.199	3.247	90.454	1.00	
3225	O	PHE		758			53.160	4.088	90.646 89.282	1.00	46.52
3226 3227	N CA	GLY		759 759			51.903 52.617	2.709 2.856	88.048	1.00	46.03 47.12
3228	CA	GLY GLY		759			53.353	4.173	87.857	1.00	50.02
3229	Ö	GLY		759			54.588	4.173	87.553		53.05
3230	N	LEU		.760			52.664	5.294	87.911		46.21
3231	CA	LEU		760			53.371	6.532	87.683		47.41
3232	CB	LEU	-	760			52.504	7.502	86.833		46.97
3233	CG	LEU		760			52.025	7.054		1.00	52.65
3234	CD1	LEU		760			51.187	8.062	84.659	1.00	51.82
3235	CD2						53.252	6.691	84.637		51.02
3236	CDZ	LEU		760			53.628	7.284	88.974		47.35
3237	.0	LEU		760			53.755	8.468	88.928		47.23
3238	N	SER		761	,		53.643	6.672	90.144		48.54
3239	CA	SER		761			53.583	7.610	91.262		49.64
3240	CB	SER		761			52.674	7.066	92.329		47.14
3241	OG	SER		761			53.142	5.812	92.428		48.99
3242	C G			761			54.965	7.803	91.813		50.77
3242	0	SER		761			55.814	6.895	91.672		51.89
3244	.N	ARG		762			55.227		92,427		50.64
3244								9.132	92.427		-
3245	CA CB	ARG ARG		762 762			56.576 57.561	9.132	91.897		51.02
				762			57.561	10.548			52.96 55.70
3247 3248	CG CD	ARG		762			57.051 57.559	10.548	90.775 89.374		55.70
2440	ĆΉ	ΥVG	Þ	702			چ دت.، ۴	TO.TT4	09,314	1.00	01.34

Express Mailing No. EV327523004US
Docket No. SYR-EPHA2-5001-C1
Sheet 68 of 90

Α	В	C	Ď	E			F·	G	Н	I	J
3249	NE	ARG	В	762			57.115	8.769	88.974	1.00	75.81
3250	CZ	ARG		762			57.530	8.088	87.860	1.00	79.84
3251	NH1	ARG					57.034	6.858	87.589	1.00	77.74
3252		ARG		762			58.432	8,624	87.030	1.00	79.01
3253.	C	ARG		762			56.692	9,874	94.202	1.00	50.69
3254	0	ARG		762				10.587	94.600	1.00	50.50
3255	N	VAL		763			57.834	9.667	94.879	1.00	52.25
3256	CA	VAL				•	58.143	10.438		1.00	53.91
3257	СВ	VAL		763			59.438	9.932	96.770	1.00	56.45
3258	CG1	VAL	В	763			59.822	10.769	98.058	1.00	53.41
3259		VAL		763			59.293	8.431	97.046	1.00	53.98
3260	Ċ	VAL	В	763			58.323	11.921	95.757	1.00	52.61
3261	0	VAL	В	763			58.998	12.205	94.849	1.00	52.54
3262	N	ALA	В	764			57.680	12.818	96.460	1.00	53.25
3263	ÇA	ΑĻΑ	В	764	Α.		57.640	14.215	-	1.00	55.20
3264	CB	ALA	. В	764			56.842	15.013	97.079	1.00	55.95
3265	Ç	AĻA	В	764			58.997	14.901	95.822	1.00	58.47
3266	0	ALA	В	764			60.011	14.667	96.486	1.00	58.95
3267	N	ALA	В	778			52.512	8.707	77.650	1.00	63.16
3268	CA	ALA	В	778			53.274	9.379	78.726	1.00	64.24
3269	CB	ALA	В	778			54.203	10.520	78.164	1.00	63,79
3270	, С	ALA	В	77.8			52.320	9.882	79.851	1.00	63.12
3271	0	ALA	В	778			52.320	9.355	80.966	1.00	63.11
3272	N	ILE	В	779			51.472	10.863	79.572	1.00	61.82
3273	CA	ILE	В	77.9			50.565	11.342	80.639	1.00	59.71
3274	CB	·ILE	В	779			51.075	12.717	81.033	1.00	60.71
3275	CG1	ILE	В	779		•	52.166	12.503	82.090	1.00	62.19
3276	CD1	ILĘ	В	779			53.432	13.193	81.727	1.00	66.21
3277	CG2	ILE	В	779			49.943	13.685	81.434	1.00	62.88
3278	C	ILE	В	779			49.010	11.248	80.435	1.00	57.07
3279	0	ILE	В	779			48.552	11.065	79.280	1.00	55.98
3280	N	PRO	В	780			48.228	11.201	81.549	1.00	54.65
3281	CA	PRO	В	780			46.770	11.559	81.509	1.00	52.75
3282	CB	PRO	В	780			46.321	11.448	82.969	1.00	53.47
3283	CG	PRO		780			47.247	10.442	83.543	1.00	51.28
3284	CD	PRO	В	780			48.603	10.801	82.915	1.00	54.55
3285	C	PRO		780			46.610	12.952	81.191	1.00	50.88
3286	0	PRO		780			46.988	13.770	82.008	1.00	56.60
3287	N			781			46.112	13.222	80.017		46.48
3288	CA	ILE		781			45.849	14.560	79.767	1.00	
3289	CB	ILE		781.			45.897	14.790	78.286	1.00	
3290	.CG1			781			47.316	15.269	78,013	1.00	
3291	CD1			781			48.308	14.194	77.831		50.28
3292	CG2	ILE		781			45.107	15.941	77.979	1.00	38.03
3293	С	ILE		7.81			44.611	15.023	80.581	1.00	
3294	0	IĻE		781			44.748	15.814	81.489	1.00	40.34
3295	N	ARG		782			43.460	14.431	80.284	1.00	41.60
3296	CA	ARG		782			42.166	14,646	80.837	1.00	38.55
3297	CB	ARG					41.127	13.968	79.858	1.00	40.91
3298	CG	ARG		782			40.395	12.734		1.00	39.72
3299	CD	ARG		782			40.142	12.040	78.779		44.03
3300	NE	ARG	В	782			38.977.	12.556	78.126	1.00	50.70

Α	В	С	D	E		F	G	Н	I	J
3301	CZ	ARG	В	782		38.978	13.000	76,853	1.00	52.30
3302	NH1	ARG	В	782		37.828	13.451	76.324	1.00	46.70
3303	NH2	ARG	В	782		40.126	13.022	76.153	1.00	44.94
3304	C	ARĞ		782		42.033	14.486	82.369	1.00	36.84
3305	0	ARG	В	782		41.124	15.127	82.932	1.00	37.92
3306	N	TRP	В	783		42.986	13.873	83.062	1.00	35.41
3307	CA	TRP	В	783		42.931	13.863	84.548	1.00	36.23
3308	CB	TRP	В	783		43.045	12.446	85.168	1.00	35.36
3309	CG	TRP	В	783		41.939	11.580	84.894	1.00	34.89
3310	CD1	TRP	В	783		40.959	11.347	85.728	1.00	34.55
3311	NE1	TRP	В	783		40.032	10.518	85.152	1.00	35.15
3312	CE2	TRP	В	783		40.417	10.196	83.889	1.00	28.35
3313	CD2	TRP	В	783		41.611	10.885	83.662	1.00	29.59
3314	CE3	TRP	В	783		42.243	10.720	82.424	1.00	33.66
3315	CZ3	TRP	В	783			9.873	81.461	1.00	39.20
3316	ÇH2	TRP	В	783		40.386	9.270	81.697	1.00	30.32
3317	CZ2		В	783		39.750	9.394	82.892	1.00	26.79
3318	С	TRP		783		44.019	14.767	85.182	1.00	37.26
3319	0	TRP		783		44.078	14.934	86.462	1.00	32.75
3320	N	THR		784		44.868	15.335	84.294	1.00	38.13
3321	CA	THR		784		46.074	16.069	84.782	1.00	38.14
3322	CB	THR		784		47.220	15.822	83.921		38.22
3323.				784		47.407	14.394	83.791	1.00	32.84
3324	CG2	THR		784		48.499	16.365	84.574	1.00	27.62
3325	C.	THR		784		45.959	17.558	84.819	1.00	42.12
3326	0	THR		784		45.451	18.183	83.855	1.00	
3327	N	ALA		785		46.415	18.118	85.944	1.00	42.78
3328	CA			785		46.490	19.525	86.209	1.00	42.20
3329	CB			785.		47.126	19.714	87.503	1.00	41.73
3330	C	ALA		785		47.330	20.250	85.152	1.00	42.59
3331 3332	O N	ALA		785		48.358	19.707	84.633	1.00	41.88
3333	CA	PRO		786 786		46.867	21.443 22.281	84.823	1.00	41.88
3334	CB	PRO		786		47.509 46.514	23.437	83.783	1.00	43.28
3335	CB	PRO		786		45.682	23.437	83.610 84.854	1.00	42.82
3336	CD	PRO		786		45.625	22.022	85.316	1.00 1.00	38.60 40.34
3337	C	PRO		786		48.937	22.647	84.199	1.00	44.36
3338	Ö	PRO		786		49.876	22.335	83.415	1.00	43.75
3339	N	GLU				49.161		85.458		47.66
3340	CA	GLU				50.585	23.216	85.879		48.56
3341	CB	GLU		787		50.799	23.521	87.366		50.25
3342	ÇG	GLU				50.506	22.415	88.438		47.77
3343	CD	GLU				49.055	22.343	88.835		45.14
3344		ĢLU		787		48.239	23.053			47.89
3345	OE2			787		48.675	21.581	89.750		48.40
3346	С	GLU		787		51.413	22.011	85.524		48.85
3347	0	GLU		787		52.601	22.103	85.448	1.00	
3348	N	ALA				50.810	20.871	85.240	1.00	
3349	CA	ALA				51.630	19.703	85.119		52.43
3350	СВ	ALA				51.138	18.650	85.984		53.63
3351	C			7.88	•	51.881	19.205	83.771		54.39
3352	0	ALA	В	7.88		52.825	18.429	83.538		53.44

A	В	C	Ď	E		F		Ġ	Н	Ï	J
3353	N	ILE	В	789		51.076	19.	.709	82.848	1.00	58.49
3354	ÇA	ILE	В	789.		51.180		.309	81.466	1.00	60.06
3355	CB	ĮLΕ		789		49.791		. 422	80.879	1.00	60.19
3356	CG1	ILE	В	789		49.005		288	81.542	1.00	57.40
3357	CD1	ILE	В	.789		47.545	18.	.338	81.498	1.00	52.54
3358	CG2	ILE	В	789		49.888	19.	. 223	79.405	1.00	60.76
3359	С	ILE	В	789		52.175	20.	260	80.860	1.00	61.11
3360	0	ILE	В	789		53.217	19.	903	80.277	1.00	61.28
3361	N	SER	В	790		51.775	21.	.498	81.090	1.00	63.37
3362	СA	SER	В	790		52.455	22	.746	80.870	1.00	65.13
3363	СВ	SER	В	790		51.887	23	. 687	§1.9 08	1.00	64.75
3364	OG	SER		790		52.132	22.	945	83.109	1.00	72.95
3365	C	SER		790		53.883		.498	81.324	1.00	65.49
3366	0	SER		790		54.721		.181	80.519	1.00	65.88
3367	N	TYR		791		54.080		534	82.650	1.00	67.60
3368	CA	TYR		791		55.356		655	83.371	1.00	67.61
3369	ĊВ	TYR		791		55.133		. 658	84.492	1.00	67.72
3370	CG	TYR		791		54.527		979	84.072	1.00	69.06
3371	CD1	TYR		791		53.373		.468	84.681	1.00	73.54
3372	CE1	TYR		791		52.811		.729	84.343	1.00	77.27
3373	CZ	TYR		791		53.434		.536	83.361	1.00	78.11
3374	OH	TYR		791		52.888		.779	83.031	1.00	74.15
3375	CE2	TYR		791		54.617		.080		1.00	76.67
3376	CD2	TYR		791		55.167		.794	83.142	1.00	74.63
3377	C .	TYR		791		55.841		.341	83.987	1.00	67.44
3378 3379	N O	TYR ARG		791		56.991	-	.177	84.471	1.00	66.78
3380	CA	ARG		792		54.955		.377	83.993	1.00	66.21
3381	CB	ARG		792 792	•	55.418 56.655		.098 .642	84.530 83.811	1.00	65.39 65.99
3382	ĊĢ	ARG		792		56.702		.131	83.750		72.90
3383	CD	ARG		792		57.978		.532	83.158	1.00	81.61
3384	NE		В	792		58.984		.572	83.010	1.00	88.48
3385	CZ	ARG		792		60.191		.394	82.478	1.00	91.91
3386	NH1	ARG		792		60.980		.468	82.408	1.00	92.54
3387	NH2	ARG		792		60.592		.196	82.009	1.00	89.53
3388	С	ARG		792		55.624		.127	86.033	1.00	61.73
3389	0		В	792		56.452		.430	86.557	1.00	61.41
3390	N	ALA	В	7.93		54.792		903	86.722	1.00	58.85
3391	CA.	ALA	В	793		54.853		.039	88.179	1.00	56.36
3392	CB	ALA	В	793	1	54.957		.543	88.590	1.00	55.91
3393	С	ALA	В	793		53.713	19	. 275	88.952	1.00	55.37
3394	0	ALA	В	793		52.576	19	.774	89.157	1.00	53.05
3395	N	PHE	В	794		54.087	18	.085	89.403	1.00	53.01
3396	CA			794		53.197	17	.141	90.066	1.00	52.23
3397	CB			794		53.621		. 682	89.718	1.00	51.93
3398	CG			794		53.400		.338	88.275	1.00	52.20
3399	CD1	PHĖ		794		52.102		, 265	87.761	1.00	55.84
3400	CE1			794		51.857		.993	86.368		57.33
3401	CZ			794		52.972		.849	85.527	1.00	57.10
3402	CE2			794		54.271		.956	86.076	1.00	51.98
3403	CD2			794		54.461		.189	87.425	1.00	50.42
3404	С	PHE	В	794	•	53.311	177	.374	91.542	1.00	50.46

Α	В	C	D	E		F	G	Н	I	J
3405	0	PHE	R	794		54.347	17.425	92.050	1.00	51.33
3406	N·	THR				52.221	17.321	92.249	1.00	
3407	CA	THR		795		52.232	17.820	93.561	1.00	
3408	CB	THR		795		52.007	19.294	93.227	1.00	48.89
3409	OG1	THR		795		53.044	20.092	93.792	1.00	
3410	CG2	THR		795		50.667	19.849	93.729	1.00	46.81
3411	CĢZ	THR		795		50.983	17.224	94.222	1.00	46.44
3412	0	THR		795		50.005	16.921		1.00	
3413	N	SER		796		50.946	17.050			
3414	CA	SER		796		49.646	16.708			42.66 42.64
3415	CB	SER		796		49.536	16.690	97.500		42.04
3416	OĞ	SER		796		50.321				
3417	C	SER		796			15.565	97.792		41.91
3418	0	SER		796		48.526		95.328	1.00	
3419		ALA		797		47.377 48.784	18.819	95.157	1.00	
3420	CA	ALA	**	797		47.663		95.079	1.00	40.89
3421	CB	ALA		797			19.681 21.114	94.615		40.50
3422	СБ			797		48.022		94.671		39.74
	0	ALA			• "	47.280	19.305	93.173	1.00	39.17
3423 3424	N	ALA SER		797 798		46.128	19.595	92.751		38.84
3425	CA:			798		48.263	18.720	92.489		34.53
3425		SER	,			48.225	18.096	91.130		37.20
3427	CB OG	SER		798 798		49.628	17.544	91.024		36.03
						50.147	17.397	89.784		39.62
3428	C	SER		798 .		47.230	16.905	91.257		37.26
3429	O	SER		798 700		46.155	16.860	90.659	1.00	39.61
3430	N	ASP		799		47.482	16.037	92.210		38.19
3431	CA	ASP		799	·	46.573	14.920	92.473		37.01
3432	CB	ASP		799	-	47.107		93.579		35.52
3433	CG OD1	ASP		799		48.139	13.180	93.147	1.00	34.06
3434 3435	OD1 OD2	ASP		799		48.373	13.014 12.613	91.930		35.46
3436	C	ASP ASP	В	799 799		48.888		93.969	1.00	38.80
3437		ASP		799		45.199	15.458	92.855	1.00	35.89
3438	O N	VAL	-	800		44.175	14.779	92.609		37.05
3439	CA	VAL		800		45.142 43.822	16.620 17.145	93.477 93.947		35.26 32.94
3440	CB	VAL				43.940	18.266	95.019		34.11
3441		VAL		800		42.646	19.149	95.117	1.00	22.48
3442		VAL				44.469	17.699	96.515	1.00	
	C	VAL				42.950	17.555	92.768		34.34
3444	0	VAL				41.709	17.301	92.760		35.47
3445	N			801		43.636	18.049			34.34
3446	CA	TRP				43.030	18.275	90.477		35.48
3447		TRP			•	44.091	18.901	89.507		35.00
3448	CG .			801		43.459	19.177	88.157		40.40
3449		TRP				43.433	18.226			38.90
3450	NE1	TRP				42.553	18.226	87.174 86.133		39.62
3451		TRP				42.553	20.212			34.39
3452		TRP				43.007	20.212	86.419 87.642		34.39
3453	CE3	TRP				43.007	20.444			
3454	CE3	TRP						88.138		38.91 36.57
3455		TRP				42.445 41.952	22.736 22.492	87.399 86.152		36.98
3456				801		41.885	22.492	85.652		38.72
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Express Mailing No. EV327523004US Docket No. SYR-EPHA2-5001-C1 Sheet 72 of 90

À	. В	С	D	E		F	G	Н	I	J
3457	С	TRP	В	801		42.351	16.959	89.962	1.00	33.13
3458	O			801		41.094	16.871	89.763		32.82
3459	N	SER	В	802		43.167	15.932	89.804	1.00	33.07
3460	CA	SER	В	802		42.670	14.644	89.377	1.00	
3461	CB	SER	В	802		43.764	13.696	89.596	1.00	32.92
3462	OG	SER	. В	802		44.915	13.966	88.873	1.00	25.93
3463	C	SER	В	802		41.511	14.199	90.191	1.00	32,70
3464	0	SER	В	802		40.470	13.693	89.697	1.00	33.27
3465	N	PHE	В	803		41.612	14.494	91.467	1.00	30.29
3466	CA	PHE	В	803		40.592	14.026	92.333	1.00	29.47
3467	CB	PHE	В	803		40.976	14.324	93.828	1.00	27.73
3468	CG	PHE	ŀΒ	803		39.873	14.000	94.769	1.00	
3469.	CD1	PHE	В	803		39.025	15.007	95.261	1.00	23.67
3470		PHE	В	803		38.016		96.177	1.00	32.92
3471	CZ			803		37.764	13.282		1.00	31.89
3472	CE2	PHE			:	38.619	12.258	95.929	1,00	28.18
3473	CD2					39.656	12.633	95.129	1.00	30.46
3474	C	PHE		803		39.283	14.713	92.014	1.00	29.62
3475	0	PHE		803		38.185	14.221	92.288	1.00	
3476	N	GLY				39.385	15.925	91.508		31.66
3477				804		38.192	16.682	91.178		32.09
3478	C			804		37.595	15.997	89.930		31.91
3479	O			804		36.344	15.792	89.811		32.78
3480	N			805		38.471	15.468	89.086	1.00	
3481	CA			805		37.922	14.809	87.937	1.00	
3482	CB	ITĖ		805		39.019	14.336	86.958		
3483	CG1			805		39.901	15.503	86.501	1.00	
3484-		ILE		805		39.060	16.699	85.638	1.00	
3485	CG2	ILE		805		38.273	13.590	85.789	1.00	30.62
3486	C	ILE		805		37.187	13.531	88.399	1.00	30.39
3487	0	ILE		805		36.137	13.167		1.00	30.88
3488	N			806		37.856	12.771	89.253	1.00	30.81
3489	CA			806 806		37.335	11.519	89.853	1.00	28.37
3490 3491	CB CC1	VAL		806 806		38.295	10.897 9.730	90.978	1.00	29.63
3492		VAL.				37.674 39.518	10.536	91.601 90.425	1.00	
3493	C			806		36.055	11.924		1.00	22.65 29.32
3494	0	VAL				35.066	11.258	90.505 90.312	1.00	32.00
3495	Ŋ,	MET				36.006	12.981			
3496	CA			807		34.635	13.320	91.282 91.782	1.00	28.61 30.01
3497	CB			807		34.544	14.686	92.556		27.73
3498	CG	MET				35.490	14.830	93.746		29.47
3499	SD	MET			:	35.350	16.540	94.517		35.02
3500	CE	MET				33.929	16.536	95.089		33.26
3501	C	MET				33.615	13.403	90.606		30.22
3502	0	MET				32.442	13.403	90.717		30.22
3503	N	TRP				34.040	13.980	89.473	1.00	31.44
3504	CA,			808		33.026	14.215	88.453		28.58
3505	CB	TRP				33.626	15.123	87.374	1.00	
3506	CG	TRP		808		32.681	15.593	86.292		26.01
3507	CD1	TRP				31.826	16.670	86.368	1.00	
3508	NE1					31.178	16.794	85.186		34.62
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Express Mailing No. EV327523004US Docket No. SYR-EPHA2-5001-C1 Sheet 73 of 90

A	В	С	D	E		F	G	Н	I .	J
3509	CE2	TRP	В	808		31.566	15.779	84.355	1.00	32.11
3510		TRP				32.468		85.061		28.97
3511	CE3			808		33.064	13.909	84.398		28.52
3512	CZ3	TRP		808		32.709	13.687	83.032		32.24
3513		TRP				31.725	14.446	82.425		35.24
3514	CZ2	TRP				31.185	15.521	83.050		31.09
3515	C	TRP		808		32.712			1.00	
3516	0	TRP		808	- *	31.577	12.568	87.668		31.29
3517		GLU				33.684		87.650		27.30
3518	CA -			809		33.330	10.714	87.110		28.51
3519	CB	GLU				34.555	9.884	86.910		30.85
3520	CG	GLU				35.617	10.432	86.024		25.12
3521	CD			809		36.813	9.571	86.014		28.19
3522		GLU		809		36.849	8.704	85.133		32.40
3523		GLU		809		37.778	9.798	86.791		31.60
3524	C	GLU		809		32.435	9.919	88.019		30.07
3525	Ö	GLŲ		809		31.575	9.111	87.555		33.66
3526	N	VAL				32.507		89.289		30.06
3527	CA	VAL		810		31.716	9.434	90.205		29.76
3528	CB	VAL				32.255	9.428		1.00	
3529		VAL				31.095	9.097			24.88
3530		VAL				33.391		91.834		25.13
3531		VAL			•	30.346	10.058	90.287		30.62
3532	o	VAL				29.381	9.349	90.313		27.09
3533	N	MET				30.247	11.393	90.308		32.39
3534	CA	MET				28.889	11.928	90.411		34.71
3535	СВ	MET				28.900	13.402	90.899		35.87
3536	CG	MET				29.590		92.224		38.06
3537	SD	MET		811		28.965	12.583			43.12
3538	CE	MET		811		27.111	12.868	93.575		35.71
3539	C	MET		811		28.162	11.746	89.043		33.74
3540	0	MET				27.022	11.928	88.905		36.24
3541	N	THR				28.845	11.231	88.066		35.66
3542	CA			812		28.304	11.132	86.752		35.64
3543	СВ	-		812		29.319	11.867			37.45
3544	OG1	THR				28.697	12.834	85.169		38.86
3545	CG2	THR				30.251	11.113			23.27
3546	С	THR				28.173	9.753	86.352		37.54
3547	0	THR				27.786	9.432	85.230		38.76
3548	N	TYR				28.448				37.57
3549	CA			813		28.363		86.943		34.78
3550	СВ			813		26.962	6.945	86.721		34.82
3551	CG	TYR				26.132	6.832	88.076		34.63
3552		TYR				25.269	7.812			29.08
3553	CE1	TYR				24.637	7.762	89.559		29.89
3554	CZ	TYR				24.749	6.694	90.445		35.16
3555	ОН	TYR				23.994	6.732	91.691		33.13
3556	CE2	TYR				25.605	5.638	90.112		31.34
3557	CD2						5.766	88.953		30.20
3558	С	TYR				29.301	6.978			34.15
3559	0	TYR					6.116			35.41
3560	N	GLY				30.513	7.539	85.891		33.63

Express Mailing No. EV327523004US Docket No. SYR-EPHA2-5001-C1 Sheet 74 of 90

A	В	С	D	E		F	G	Н	I	J
3561	CA	GLŲ	В	814		31.485	6.912	85.013	1.00	33.04
3562	С	GLY	В	814		31.465	7.503	83.656	1.00	33.66
3563	0	GLY	В	814		31.929	6.919	82.671	1.00	29.15
3564	N	GĻU	В	815		30.913	8.688	83.576	1.00	34.73
3565	ÇA	GLU	В	815		31.053.	9.319	82.301	1.00	37.09
3566	CB	ĢĻU	-	815		30.177	10.491	82.237	1.00	38.02
3567	CG	GLU		815		30.303	11.378	80.999	1.00	40.70
3568	CD	GLU		815		29.679	10.720	79.825	1.00	39.58
3569	OE1	GLU		815		30.404	10.091	79.087	1.00	37.45
3570	OE2			815		28.456	10.675	79.743	1.00	43.36
3571	C	GLU				32.498	9.735	82.095	1.00	38.19
3572	0	GLU		815		33.212	10.124	83.020	1.00	38.65
3573	N	ARG		816		32.930	9.543	80,863	1.00	37.01
3574 3575	CA CB	ARG ARG		816 816		34.213 34.352		80.391	1.00	38.78
3576 3576	CG	ARG				35.424	9.446 10.059	78.966 78.162	1.00	38.98 42.28
3577	CD			816		36.087	9.017	77.341	1.00	52.01
3578	NE			816		37.532	9.132	77.341	1.00	54.71
3579	CZ	ARG		816		38.138	9.580	76.306	1.00	
3580	NH1	ARG		816		37.353	9.900	75.305	1.00	
3581	NH2	ARG		816		39.446	9.779	76.226	1.00	56.49
3582	C			816		34.381	11.410	80.467		38.72
3583	0	ARG	-			33.687	12.139	79.791		39.78
3584	N	PRO	В	817		35.330	11.824	81.298	1.00	37.40
3585	CA	PRO	В	817		35.684	13.217	81.461	1.00	37.95
3586	CB	PRO	В	817		36.997	13.136	82.256	1.00	37.05
3587	CG	PRO		817		36.763	11.888	83.183	1.00	38.15
3588	CD	PRO	В	817		36.171	10.927	82.136	1.00	38.41
3589	C			817		35.788	13.947	80.089	1.00	38,69
3590	0			817		36.495	13.433	79.252	1.00	36.60
3591	N	TYR		818		35.057	15.066	79.844	1.00	38.82
3592	CA	TYR		818		35.210	15.759	78.539	1.00	
3593	CB	TYR		818		36.663	16.068	78.236	1.00	38.09
3594	CG CD1	TYR TYR		818		37.266	16.821	79.315	1.00	39.70
3595 3596	CD1 CE1	TYR		818 818		36.909 37.443	18.157 18.905	79.532 80.645	1.00	34.79 34.86
3597	CZ	TYR		818		38.325	18.209	81.532		37.76
3598	OH	TYR	•			38.860	18.893	82.603	1.00	39.95
3599	CE2	TYR				38.653	16.824	81.335		33.51
3600	CD2	TYR				38.098	16.158	80.229		36.26
3,601	С	TYR				34.667	14.938	77.424		38.80
3602	0			818		34.928	15.202	76.270		39.89
3603	N			819		33.846	13.989	77.763		.38.70
3604	CA	TRP	В	819		33.188	13.270	76.700		39.85
3605	ÇB	TRP	В	819		.32.069	14.135	76.151	1.00	3803
3.606	CG	TRP				31.456	14.694	77.287		36.05
3607	CD1			819		30.606	14.112	78.042		30.08
3608	NE1					30.225	14.945	79.039		25.80
3609		TRP				30.803	16.169	78.851		30.10
3610	CD2					31.604	16.053	77.781		36.77
3611	CE3					32.310	17.173	77.346		33.18
3612	CZ3	TRP	R	819	•.	32.236	18.266	77.979	1.00	31.31

A	В	C D	E		F	G	Н	Į	J
3613	CH2	TRP B	819		31.410	18.424	79.081	1.00	35.76
3614	CZ2	TRP B	819		30.670	17.374	79.552	1.00	36.26
3615	C	TRP B	819		34.172	12.981	75.636	1.00	39.50
3616	. O	TRP B	819		35.257	12.601	75,950	1.00	42.24
3617	N	GLU B	820		33.837	13.251	74.389	1.00	39.99
3618	CA	GLU B	820		34.742	12.918	73.254	1.00	40.61
3619	CB	GLU B	820		33.941	12.178	72.114	1.00	41.25
3620	CG	GLU B	820		33.263	10.859	72.529	1.00	40.27
3621	CD	GLU B	820		32.030	11.030	73.446	1.00	45.99
3622	OE1	GLU B	820		31.875	10.407	74.529	1.00	48.82
3623	OE2	GLU B	820		31.163	11.766	73.086	1.00	36.20
3624	С	GLU B	820		35.708		72.749	1.00	40.02
3625	. 0	GLU B	820		36.216	13.972	71.706	1.00	39.30
3626	N	LEU B	821		35.944	15.037	73.516	1.00	42.32
3627	CA	LEU B	821		36.969	16.002	73.125	1.00	45.66
3628	CB	LEU B	821		37.212	16.973	74.283	1.00	45.63
3629	CG	LEU B	821		36.273	18.189	74.253	1.00	50.25
3630	CD1	LEU B	821		34.848	17.908	73.740	1.00	53.81
3631	CD2	LEU B	821		36.254	18.988	75.530	1.00	46.51
3632	C .	LEU B	821		38.234	15.199	72.892	1.00	45.45
3633	··O	LEU B	821		38.302	14.137	73.411	1.00	45.58
3634	N	SER B	822		39.183	15.665	72.097	1.00	45.03
3635	CA	SER B	4 * "		40.462	14.994		1.00	47.64
3636	CB	SER B	822		41.264	15.426	70.738		47.83
-3637 3638	OG C	SER B			41.442 41.291	16.836	70.727		44.19
3639	0.	SER B			40.974	15.448 16.431	73.115 73.769	1.00 1.00	48.61 48.62
3640	N	ASN B	8:23		42.405	14.776	73.763	1.00	50.08
3641	CA	ASN B			43.325	15.385	74.319	1.00	53.14
3642	СВ	ASN B			44.484	14.436	74.614	1.00	53.45
3643	CG	AŞN B	823		43.996	13.177	75.311	1.00	57.25
3644		ASN B	823		42.979	13.236	76.090	1.00	56.44
3645	ND2	ASN B	823		44.642	12.035	75.027	1.00	50.82
3646	C,	ASN B	823		43.669	16.895	74.071	1.00	52.98
3647	0	ASN B	823	,	43.354	17.756	74.937	1.00	53.13
3648	N	HIS B	824		44.132	17.237	72.858	1.00	54.65
3649	CA	HIS B	824		44.478	18.636	72.459	1.00	54.79
3650	СВ	HIS B	824		45.032	18.740	70.973	1.00	58.59
3651	CG	HIS B			44.129	19.419	69.940		67.70
3652		HIS B			43.609	20.705	70.072	1.00	73.79
3653		HIS B			42.888	21.017	69.000		75.94
3654		HIS B			42.761	20.940	69.073		75.87
3655		HIS B			42.935	19.999	68.157		76.47
3656		HIS B			43.718	18.994	68.703		75.66
3657	C	HIS B			43.306	19.509	72.778	1.00	52.56
3658	O	HIS B			43.424	20.588	73.463	1.00	49.91
3659	N	GLU B			42.128	19.027	72.387	1.00	
3660 3661	CA CB	GLU B			40.942 39.699	19.831 19.255	72.718 72.086	1.00 1.00	50.31 52.70
3662	CG	GLU B			39.899	19.233	70.695	1.00	55.19
3663	CD	GLU B			38.704	18.188	70.055		60.55
3664	OE1				38.480	16.987	70.221		63.97
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A	В	C	D	E		F	G .		Н	I	J
3665	OE2	GLU	В	825	•	37.946	18.964	69	.435	1.00	63.96
3666	С	GLU				40.747	20.079		.206	1:00	49.70
3667	0	GLU		825	٠.	40.538	21.250		.669	1.00	48.88
3668	N	VAL				40.903	19.012		.976	1.00	47.68
3669	CA	VAL		826		40.825	19.160		.439		46.21
3670	СВ	VAL		826		41.173	17.756		.124	1.00	
3671	CG1	VAL		826		41.421	17.900		.686	1.00	46.13
3672	CG2	VAL		826		40.130	16.592		663	1.00	38.86
3673	С	VAL	В	826		41.762	20.239		.958	1,00	
3674	0	VAL	В	826		41.363	21.236		.651	1.00	46.61
3675	N	MET	В	827		43.023	20.076	76	.582	1.00	47.29
3676	CA	MET	В	827		44.025	21.031	77	016		48.46
3677	CB .	\mathtt{MET}	В	827		45,429	20.635		.593	1.00	49.16
3678	CG	MET	В	827.		46.036	19.261	77	.139	1.00	48.31
3679	SD	MET	В	827		47.464	18.772	76	174	1.00	56.19
3680	CE	MET	₿	827		48.223	20.801	76	.241	1.00	53.80
3681	C, ,	MET	В	827		43.641	22.449	76	.548	1.00	50.31
3682	Q ·	MET	В	827		43.675	23.355	77	381	1.00	51.02
3683	N	ALA	В	828		43.175	22.647	75	.280	1.00	50.45
3684	CA	ALA	В	828		42.812	23.992	74	.874	1.00	48.64
3685	CB	ALA	В	828		42.467	24.087	73	.404	1.00	49.40
3686	С	ALA	В	828		41.656	24.425	75	.727	1.00	47.69
3687	0	ALA	В	828	-	41.688	25.516	76	302	1.00	45.93
3688	N.	ALA	В	829		40.622	23.600	75	.859	1.00	48.34
3689	CA	ΑĻΑ	В	829		39.500	24.095	76	706	1.00	49.28
3690	CB	ALA	В	829		38.454	23.025	76	.877	1.00	48.53
3691	С	ALA				39.974	24.564	78	.107	1.00	50.69
3692	0	ALA		829		39.428		78	.706	1.00	52.39
3693	N	ΪLΕ		830-		40.902	23.804		. 674	1.00	51.92
3694	CA	IĻE		830		41.427	24.108		.998	1.00	54.05
3695	CB	ILE				42.400	22.914		.456	1.00	54.22
3696	CG1	ILE		830		41.635	21.788		.139	1.00	55.56
3697	CD1	ILE		830		40.775	22.243		.301	1.00	56.62
3698	CG2	IĻE		830		43.521	23.378		.390	1.00	52.02
3699	C	ILE		830		42.152	25.485		.957	1.00	54.79
3700	0	ILE		830		41.872	26.417		.751	1.00	54.16
3701	N	ASN			4.	43.068	25.588		.006	1.00	55.43
3702	CA	ASN				43.834	26.818		.871	1.00	57.64
3703	CB	ASN				44.900	26.698		.762		57.97
3704	CG	ASN				46.082	25.749		.170	1.00	
3705		ASN				46.313	25.407		.388	1.00	
3706		ASN			-	46.803	25.283		.160	1.00	
3707	Ç	ASN				42.869	28.013		.776	1.00	56.48
3708	0	ASN				43.088	29.055		.374	1.00	57.73
3709	N	ASP				41.729	27.833		.136	1.00	55.50
3710	CA	ASP				40.747	28.879		.162	1.00	54.22
3711	CB	ASP				39.824	28.726		.982	1.00	56.03
3712	CG	ASP				40.475	29.240		.659	1.00	62.62
3713		ASP			-	40.519	30.491		.432	1.00	65.21
3714		ASP				41.001	28.469		.822		63.16
3715	C	ASP				39.956	28.914			1.00	53.83
3716	Ò	ASP	Ř	832		39.026	29.722	79	.634	1.00	49.78

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3717	Ŋ	GLY				40.258	28.009	80.431	1.00	52.62
3718	CA	GLY				39.487	28.103	81.674	1.00	52.59
3719	C	GLY			*	38.078	27.498	81.698	1.00	51:69
3720	0	GLY				37.252	27.863	82.546	1.00	53.45
3721	N.	PHE		834		37.795				50.06
3722	CA	PHE		834		36.587	25.786	80.701	1.00	49.17
3723 3724	CB CG	PHE PHE		834		36.577	24.912	79.451	1.00	46.71
3725	CD1	PHE				35.397 ⁻ 35.538	23.934 22.592	79.392 79.676	1.00	49.59
3726	CE1	PHE					21.720	79.632	1.00 1.00	48.43
3727	CZ	PHE				33.226	22.210	79.315	1.00	49.88 47.84
3728	CE2	-		834		33.106	23.517	78.977	1.00	49.60
3729	CD2	PHE				24 140	24.351	78.999	1.00	49.93
3730	Ç.	PHE		834		36.831	24.753	81.816	1.00	47.10
3731	0			834	٠	37.960	24.368	82.076	1.00	46.20
3732	N	ARG		835		35.745	24.346	82.462	1.00	43.32
3733	.CA	ARG		835		35.681	23.378	83.528	1.00	41.36
3734	СВ	ARG		835		35.414	23.993	84.921	1.00	40.95
3735	CG	ARG	В	835		36.467	24.942	85.518	1.00	39.62
3736	.CD	ARG	В	835		37.837	24.358	85.418	1.00	38.69
3737	NE	ARG	В	835	•	38.881	25.042	86.088	1.00	44.32
3738	CZ	ARG	B	835		39.934	25.489	85.438	1.00	50.44
3739	NH1			835.		40.938	26.049	86.127	1.00	43.02
3740	NH2	ARG	В	835		39.981	25.329	84.088	1.00	44.62
3741	Ċ	ARG	В	835		34.440	22.546	83.165	1.00	40,49
3742	0	ARG		835		33.483	23.057	T - 7	1.00	41.54
3743	N	LEU		836		34.469	21.271	83.482	1.00	37.93
3744	CA			836	-	33.425	20.396	83.233		36.15
3745	CB			836		33.838	18.994	83.815	1.00	37.66
3746	CG	LEU		836		35.116	18.323	83.267	1.00	35.29
3747	CD1	LEU				35.499	17.005	83.929	1.00	33.23
3748	CD2 C	LEU LEU		836		34.789	18.074	81.815	1.00	38.91
3749 3750	0	LEU		836 836		32.232 32.432	20.956 21.572	83.981 85.028	1.00	36.97 36.64
3751	N	PRO		837		30.999	20.719	83.525	1.00	34.28
3752	CA	PRO		837	•	29.824	21.275	84.187	1.00	34.92
3753	CB	PRO		837		28.789	21.273	83.072	1.00	34.34
3754	CG	PRO				29.449	20.600	81.871	1.00	39.22
3755	CD			837	•	30.650	19.919	82.344		35.63
3756	C			837		29.206	20.394	85.301		36.66
3757	0			837		29.462	19.205	85.411		34.31
3758	N	THR				28.308	20.910	86.081		37.44
3759	CA	THR	В	838		27.996	20.063	87.170		41.30
3760	CB	ŢĦŖ	В	838		27.125	20.677	88.173	1.00	42.22
3761	OG1	THR	В	838		26.152	19.670	88.570	1.00	45.09
3762	CG2					26.224	21.773	87.502	1.00	44.87
3763	С	THR				27.248	18.908	86.572	1.00	43.03
3764	0,.			838		26.534	19.021	85.578	1.00	44.86
3765	N			839		27.366	17.803	87.218	. 1.00	41.53
3766	CA			839		26.726	16.604	86.740	1.00	43.52
3767	CB			839	•	27,395	15.497	87.609	1.00	40.76
3768	CG	PRO	В	839		28.609	16.173	88.078	1.00	42.05

A	В	C '.	Ď	E		F	G	Н	I	J
3769	CD	PRO	В	839		28.056	17.580	88.467	1.00	42.30
3770	C	PRO		839		25.278	16,789	87.071	1.00	44.34
3771	O	PRO	В	839		24.955	17.610	87.915	1.00	46.72
3772	N	ALA	В	840		24.416	16.004	86.466	1.00	46.17
3773	CA	ALA	В	840		22.989	16.149	86.701	1.00	46.30
3774	CB	ALA	В	840		22.229	15.193	85.735	1.00	46.61
3775	C	ALA	В	840		22.791	15.690	88.100	1.00	47.32
3776	0	ALA				23.359	14.659	88.452	1.00	48.03
3777	N	ASP	В	841		21.963	16.400	88.859	1.00	47.66
3778	CA	ASP.			- "	21.685	16.142	90.292	1.00	48.16
3779	CB	ASP			٠	20.927		90.420		50.16
3780	CG	ASP			٠	19.492	14.998	89.877	1.00	56.15
3,781		ASP				18.696	13.990	89.914		57.77
3782	OD2	ASP		841		19.120		89.372	1.00	
3783	C			841		22.863	16.166	91.204	1.00	47.22
3784	0	ASP		841		22.887		92.244		48.47
	N			842		23.875	16.886			45.42
3786	CA			842		24.882	16.890	91.830		42.29
3787	CB			842		26.202	17.117	91.137		42.38
3788	SG	CYS				27.632		92.149		39.32
3789	C .	CYS		842		24.617	17.957	92.802		43.32
3790 3791	O N	CYS PRO		842		24.280 24.714	19.092	92.452		45.03
3792	CA ·	PRO				24.714	17.602	94.064 95.111	1.00	43.72
3793	CB	PRO		843		24.028	18.589 17.794	96.325		42.14
3794	СБ	PRO				24.591	16.246	95.888	1.00 1.00	44.83 42.62
3795	CD	PRO				24.594	16.240	94.536	1.00	40.73
3796	Ç.	PRO		843	_	25.658	19.593	94.858		42.60
3797	O	PRO				26.804	19.223	94.460	1.00	43.32
3798	N	SER				25.288	20.847	95.134	1.00	40.74
3799	CA	SER		844		26.138	22.019	94.922	1.00	41.10
3800	СВ	SER		844		25.378	23.281	95.359		45.78
3801	OG	SER		844		24.007	22.921	95.667	1.00	47.77
3802	C.	SER		844		27.363	22.044	95.753	1.00	39.64
3803	0	SER	В	844		28.384	22.625	95.348	1.00	40.26
3804	N	ALA	В	845		27.313	21.508	96.965	1.00	37.83
3805	CA	ALA	В	845		28.582	21.420	97.650	1.00	36.40
3806	CB	ALA				28.347	21.151	99.043	1.00	39.16
3807	C	ALA	В	845		29.485	20.414	97.041	1.00	36.50
3808	0	ALA	В	845		30.717	20.568	96.981	1.00	40.92
3809	N	ILE				28.983	19.393	96.448	1.00	37.49
3810	CA	ILE				29.931	18.505	95.824		38.19
3811	CB	IĻE				29.123		95.389		38.40
3812	CG1	ILE				28.802	16.375	96.633		41.00
3813	CD1	ILE				30.056		97.794		34.53
3814	CG2	ILE				29.935	16.381	94.424		38.32
3815	C	ILE			٠.	30.488	19.261	94.613		39.49
3816	0	ILE					19.363	94.292		37.89
3817	N	TYR				29.540	19.759	93.833		42.21
3818 3819	CA	TYR				30.006	20.529	92.653		42.74
	CB	TYR				28.846	21.081	91.802		43.60
3820	ÇĢ	TYR	Þ	04/		29.434	21.686	90.506	T.00	46.75

A	В	C D	E		· F	G	H ·	I	. J . :
3821	CD1	TYR B	847		29.238 ⁻	23.035	90.142	1.00	40.15
3822	CE1	TYR B	847		29.804	23.528	88.926	1.00	48.32
3823	CZ	TYR B	847		30.561	22.684	88.120	1.00	44.77
3824	OН	TYR B	847		31.151	23.079	86.988	1.00	40.40
3825	CE2	TYR B	847		30.776	21.358	88.509	1,00	44.70
3826	CD2	TYR B	847		30.234	20.893	89.685	1.00	47.08
3827	С	TYR B	847		30.858	21.662	93.143	1.00	40.26
3828	0	TYR B	847		31.963	21.877	92.659	1.00	40.34
3829	N	GLN B	848		30.451	22.340	94.207	1.00	41.30
3830	CA	GLN B	848		31.418		94.664	1.00	43.37
3831	CB	GLN .B	848		30.823	24.320	95.701	1.00	45.07
3832	CG	GLN B	848	•	31.676	25.537	96.106	1.00	51.95
3833.	CD	GLN B	848		31.283	26.899	95.372	1.00	63.54
3834	OE1	GLN B	848		30.417	26.923	94.412	1.00	64.88
3835	NE2	GLN B	848	*	31.976	28.042	95.806	1.00	60.42
3836	C	GLN B	848		32.850	22.934	94.967	1.00	41.04
3837	0	GLN B	848		33.897	23.527	94.527	1.00	41.33
3838	N	ĻEU B	849	* .	32.915	21.786	95.608	1.00	38.01
3839	CA	LEU B	849		34.208	21.204	95.905	1.00	35.47
3840	CB	LEU B	849		33.889	20.040	96.868	1.00	36.49
3841	CG	LEU B	849		35.120	19.349	97.222	1.00	36.62
3842	CD1	LEU B	849		36.078	20.393	97.866	1.00	32.52
3843	CD2	LEU B	849		34.708	18.241	98.241	1.00	43.70
3844	C	LEU B	849		34.946	20.716	94.708.	1.00	35.06
3845	0	LEU B	849		36.200	20.891	94.564	1.00	34.28
3846	N	MET B	850		34.223	20.003	93.821	1.00	35.02
3847	CA.	MET B	850		34.861	19.681	92.512	1.00	36.09
3848	CB	MET B	850		33.703	19.134	91.632	1.00	37.35
3849	CĢ	MET B	850		33.905	18.476	90.380	1.00	32.97
3850	SD	MET B	850		32.372	17.871	89.923	1.00	36.02
3851	CE	MET B	850	* .	31.755	17.245	91.136	1.00	32.09
3852	\mathbf{C}_{i}	MET B	850		35.487	21.062	92.000	1.00	36.72
3853	0	MET B	850		36.645	21.219	91.693	1.00	38.32
3854	N	MET B	851	-	34.747	22.126	91.975	1.00	37.60
3855	CA	MET B			35.408	23.296	91.429	1.00	38.96
3856	CB	MET B	851		34.424	24.425	91.381	1.00	38.34
3857	CG	MET B	851		33.322	24.168	90.395	1.00	38.17
3858	SD	MET B			33.760.	24.269	88.645	1.00	45.90
3859	CE	MET B			34.669	25.672	88.676		46.07
3860	C	MET B			36.688	23,.732	92.181		41.53
3861	0	MET B			37.765	24.106			43.20
3862	N	GLN B			36.617	23.715	93.495		38.35
3863	CA	GLN B			37.772	24.172	94.206		39.33
3864	CB	GLN B		•	37.474	24.264	95.703		42.34
3865	CG	GLN B			36.356	25.195	96.036	1.00	45.28
3866	CD	GLN B			35.754	24.863	97.391		62.60
3867		GLN B			34.797	25.545	97.871		.68.59
3868	NE2				36.292	23.806	98.030		69.44
3869	C	GLN B			38.834	23.236	93.879		40.26
3870	0	GLN B			39.939	23.631	93.706		41.90
3871	N	CYS B			38.590	21.960	93.648		40.71
3872	CA	CYS B	853		39.835	21.254	93.263	1.00	39.23

	A	В	C	D	E		F	G	Н	I	J
	3873	СВ	CYS	B	853		39.782	19.711	93.273	1.00	39.20
	3874	SG	CYS		853		38.918	18.954	94.690	1.00	40.47
	3875	C ·	CYS		853		40.318	21.686	91.913	1.00	40.72
	3876	0	CYS		853		41.421	21.347	91.564	1.00	38.66
	3877	N	TRP		854		39.519	22.366	91.092	1.00	41.68
	3878	CA	TRP				40.111	22.647	89.772	1.00	44.18
	3879	CB	TRP	B	854		39.031	22.457	88.667	1.00	44.45
	3880	ĊĢ	TRP	-	854		38.618	21.114	88.501	1.00	
	3881	CD1	TRP	В	854		39.368	19.980	88.704	1.00	41.87
	3882	NE1	TRP		854		38.602	18.866	88.449	1.00	35.93
	3883		TRP				37.352	19.263	88.140	1.00	32.47
		CD2									
	3884 3885	CE3	TRP TRP		854 854		37.333	20.687 21.359	88.167 87.897	1.00	38.06
							36.138			1.00	32.76
	3886	CZ3	TRP				35.127	20.665	87.536	1.00	29.91
	3887		TRP		854		35.159	19.211	87.528		36.45
	3888.	CZ2	TRP		854		36.282	18.524	87.789		32.15
	3889	C .	TRP			-	40.722	24.083	89.583		45.26
	3890	0	TRP		854		41.080	24.493	88.441		43.51
	3891	N	GLN				40.727	24.844	90.675		45.68
	3892	CA	GLN		855		41.226	26.182	90.651		46.55
	3893	CB	GLN		855		41.379	26.724	92.049	1.00	
	3894	CG	GLN		855		40.053	26.999	92.625		50.56
	3895	CD	GLN				40.145	28.208	93.423		60.72
	3896		GLN				40.024		94.670	1.00	58.07
	3897		GLN				40.408	29.384	92.729		61.21
	3898	C	GLN		855		42.519	26.130	90.037	1.00	
	3899	0	GLN		855		43.278	25.307	90.342	1.00	
	3900	N ·	GLN		856		42.710	27.051	89.106	1.00	47.78
	3901	CA	GLN		856		43,924	27.243	88.368	1.00	47.38
	3902	CB	GLN		856		43.729	28.485	87.470	1.00	49.87
	3903	CG _.	GLN		856		44.834	28.698	86.488	1.00	49.20
	3904	CD	GĻN		856		44.839	27.597	85.453	1.00	59.89
	3905	OE1	GĻN		856		43.788	26.947	85.185	1.00	61.37
	3906	NE2	GLN		856		46.017	27.356	84.866	1.00	60.84
	3907	С	GLN		85,6		45.065	27.456	89.331	1.00	46.71
٠	3908	0	GLN		856		46.106	26.883	89.154	1.00	44.54
	3909		GLU		857		44.892	28.308	90.331	1,00	48.11
	3910	CA	GLU				45.984	28.408	91.341	1.00	51.65
	3911	CB	GLU				45.768	29.578	92.387		52.14
	3912	CG	GLU				46.166	30.915	91.710		62.33
	3913	CD	GLU				45.832	32.252		1.00	71.26
	3914	OE1	GLU				45.616	32.369			76.69
	3915		GLŲ				45.828	33.239	91.631		75.04
	3916	С	ĢLU					27.138	92.117		49.78
	3917	0	GLU				45.368	26.874	93.003	1.00	50.77
	3918	N			858		47.167	26.345	91.823	1.00	48.84
	3919		ARG				47.332	25.179	92.679	1.00	48.89
	3920	CB	ARG				48.631	24.421	92.402	1.00	48.75
	3921	CG	ARG				49.933	24.995	92.988	1.00	46.77
	3922	CD	ARG				51.166	24.444	92.169	1.00	55.09
	3923	NE	ARG				52.374	24.183	92.946	1.00	66.77
	3924	CZ	ARG	B	858		53.580	24.706	92.706	1.00	70.86

A	В	C.	D	E		F	G	. Н	ıI,	J
3925	NH1	ARG	R	858		53.804	25.519	91.672	1.00	68.19
3926		ARG		858	•	54.588	24.373	93.510	1.00	75.23
3927	C	ARG		858		47.192	25.455	94.211	1.00	49.58
3928	0	ARG		858		46.606	24.640	94.922	1.00	
3929	N	ALA		859		47.743	26.584	94.704	1.00	49.56
3930	CA	ALA		859		47.766	26.775	96.131	1.00	49.75
3931	СВ	ALA		859		48.584	27.954	96.533	1.00	51.56
3932	C	ALA		859		46.364	26.871	96.691	1.00	49.92
3933	Ö	ALA		859		46.123	26.666	97.946	1.00	47.88
3934	N	ALA				45.410	•	95.789	1.00	
3935	CA	ALA	В	860		44.084	27.368		1.00	46.93
3936	CB ·	ALA	В	860		43.377	28.492	95.576	1.00	48.07
3937	C	ALA	В	860		43.240	26.131	96.356	1.00	45.49
3938	Q	ALA	В	860		42.064	26.182	96.738	1.00	43.79
3939	N	ARG	В	861		43.808	25.041	95.824	1.00	45.18
3940	CA	ARG		861		43.069	23.742	95.850	1.00	45.03
3941	СВ	ARG	В	861		43.616	22.678	94.889	1,00	45.11
3942	ÇĢ	ARG	В	861		43.572	23.172	93.351	1.00	46.90
3943	CD	ARG		861		44.345	22.261			44.77
3944	NE			_861		44.743	22.970	91.264		38.07
3945	CZ			861		45.809	22.714	90.575		41.87
,3946		ARG		861		46.592	21.700	90.905	1.00	38.56
3947	NH2	ARG				46.150	23.523			
3948	C			861		43.130	23.309	97.271	1.00	45.07
3949	0			-861		44.103	23.626	98.032	1.00	44.45
3950	N	PRO		862		42.026	22.694	97.660		43.87
3951	CA	PRO		862		41.895	22.193	98.984	1.00	43.84
3952	CB			862		40.554	21.463	98.980	1.00	44.25
3953	CG			862		39.896	21.841	97.717	1.00	
3954	CD	PRO	В	862		40.829	22.473	96.845	1.00	44.03
3955 3956	Ċ		В	862		42.931	21.188	99.086	1.00	43.12
3957	O N		В	862 863		43.244	20.570	98.142 100.274	1.00	42.37
3958	CÀ		В	863		44.308	19.872	100.274	1.00	43.78
3959	CB		В	863		45.168		100.317	1.00	44.01 44.71
3960	CG		В	863		46.523		101.704	1.00	51.54
3961	CD		В	863		46.460		100.652	1.00	56.44
3962	CE ·	LYS		863		47.864	22.699	100.246	1.00	61.29
3963	NZ	LYS				49.033	21.667			67.02
3964		LYS				43.545		100.706		39.71
3965	0		-	863		42.327		•		38.33
3966	N	PHE				44.230		100.460		36.76
3967	CA	PHE				43.420		100.759		38.90
3968	CB	PHE		864		44.140		100.429		37.94
3969	CĞ	PHE	В	864		44.178	14.527	98.922		33.91
3970		PHE		864		45.375	14.533	98.233		29.69
3971	CE1	PHE	В	864		45.459	14.319	96.835		34.24
3972	CZ	PHE	B	864	٠,	44.247	14.052	96.097	1.00	34.64
3973	CE2	PHE	В	864		43.040	14.039	96.796	1.00	34.40
3974	CD2			864		43.011	14.281	98.235	1.00	33.00
3975	С			864		42.796	16,097	102.134	1.00	
3976	0	PHE	В	864		41.644	15.610	102.340	1.00	42.22

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3977	N	ALA	В	865		43.535	16.632	103.081	1.00	38.65
3978	CA	ALA				43.021		104.387	1.00	41.81
3979	СВ	ALA		865		44.179		105.512	1.00	
3980	C	ALA				41.864		104.488		41.60
3981	O.	ALA		865		40.936	17.255		1.00	41.67
3982	N	ASP		866		41.882		103.846	1.00	42.39
3983	CA		В	866		40.590	19.411		1.00	44.31
3984	СВ	ASP		866		40.540	20.833		1.00	44.90
3985	CG	ASP		866		41.770	21.613		1.00	50.05
3986	OD1	ASP	В	866		42.078		104.884	1.00	55.78
3987	OD2	ASP	В	866		42.487	22.082	102.707	1.00	49.26
3988	С	ASP	В	866		39.398	18.607	103.357	1.00	43.11
3989	0	ASP	B	866		38.289	18.577	103.908	1.00	40.88
3990	N	ILE	В	867	•	39.687	17.950	102.214	1.00	41.48
3991	CA	ΙĻΕ	В	867		38.644	17.260	101.454	1.00	39.52
3992	CB	ĮLΕ	В	867		39.235	16.640	100.175	1.00	39.26
3993	CG1	IĻE	В	867		39.557	17.782	99.199	1.00	37.38
3994	CD1	ILE	В	867		40.457	17.388	97.911	1.00	34.65
3995	CG2	I ľĒ.	В	867		38.265	15.618	99.527		30.26
3996	C	ILE	₿	867		38.010	16.203	102.272		39.36
3997	0	ILE		867		36.787	16.055	1	1.00	37.24
399,8	N	VAL		868		38.841	15.458		1.00	40.82
3999	CA	VAL		868		38.200	14.447		1.00	40.27
4000	CB			868		39.269		104.586		43.83
4001	CG1	4 1				38.560	12.555		1.00	
4002		VAL				40.125	12.770		1.00	39.45
4003	C .	VAL		868		37.345	15.129		1.00	
4004	-0	VAL		868		36.193	14.723	105.003		41.29
4005	N			869		37.826	16.169			41.17
4006	CA			869		36.879	16.666			44.54
4007	CB			869		37.479	17.651			
4008	OG			869		38.536	18.378			50.61
4009	C O	SER SER		869		35.713	17.290	105.912		44.10
4010 4011	N .			869 870		34.559 35.941	17.140	106.449	1.00	45.09 43.54
4011	CA			870		35.941 34.744	17.977 18.495	104.771 104.139	1.00	42.08
4012	CB			870		34.744	19.950			43.22
4013	CG1			870		33.586	19.999	102.312		41.61
4015	CD1					33.949		102.312		41.32
4016	CG2			870		36.033		102.635		40.07
4017	C	ILE		870		33.864		103.682		41.89
4018	0			870		32.658		103.793		41.51
4019	N			871		34.404		103.192		.42.27
4020	CA			871		33.374		102.861		42.82
4021	CB			871		33.923		101.973		40.18
4022	CG			871		34.172		100.580		43.50
4023	CD1			871		34.974	13.645	99.846		42.97
4024	CD2			871		32.952	15.032	99.820		30.76
4025	Ċ			871		32.699		104.115		41.38
4026	0			871		31.528	14.182	104.128		43.91
4027	N .	ASP				33.394		105.207		41.15
4028	CA			872	•	32.653		106.384	1.00	41.49

	Α	В	C .	D	Ė		F	, G	H	I	J
	4029	СВ	ASP	В	872		33,673	13.713	107.437	1.00	39.80
	4030	CG	ASP				34.462		107.107		45.40
	4031	OD1	ASP				33.894		106.424	1.00	51.78
	4032	OD2	ASP	В	872		35.617		107.556	1.00	52.74
	4033	C ·	ASP	В	872		31.402		106.910		43.24
	4034	.0	ASP	В	872		30.268		107.347	1.00	42.17
	4035	N	LYS	B	873		31.557		106.813	1.00	42.48
	4036	CA	LYS	В	873		30.499	17.147	107.252	1.00	45.45
	4037	CB	LYS	В	873		30.925	18.620	107.369	1.00	46.52
	4038	CG	LYS	В	873		32.038	18.846	108.362	1.00	52.07
-	4039	CD	LYS	В	873		32.946	20.036	107.986	1.00	60.03
	4040	CE	LYS	В	873		33.740	20.457	109.190	1.00	66.29
	4041	NZ	LYS	В	873		34.221	19.164	109.838	1.00	72.68
		С	LYS				29.324		106.377	1.00	47.08
	4043	- ,			873		28.196		106.833		48.85
	4044	N	ΓĖΩ				29.503		105.094	1.00	46.56
	4045		LEU		874		28.235	16.640	104.425	1.00	45.19
	4046	CB	ĻĒU		874		28.375		102.875	1.00	
	4047	ÇG	LEU		874		29.232		102.434		48.30
	4048		LEU		874		29.940		101.164	1,00	45.32
	4049		ĻĘU				28.475		102.439	1.00	51.85
	4050	C	LEU				27.677		104.767		46.11
	4051	0	LEU				26.433		104.797	1.00	
	4052	N	ILE				28.568		104.846	1.00	48.45
	4053	ÇA	ILE		875		28.076		105.024	1.00	
	4054	CB	ILE		875		29.276		105.013		50.00
	4055	CG1	ILE		875		29.557		103.630	1.00	49.38
	4056 4057	CD1 CG2			875 875		30.973 29.010		103.455		50.85
	4058	CGZ			875		27.452	10.708	105.957 106.397	1.00	48.28 52.40
	4059	0		B	875		26.435		106.683	1.00	52.40
	4060	N	ARG				28.026			1.00	55.97
	4061	CA	ARG		876		27.371		108.590		59.43
	4062	CB	ARG				28.395		109.636	1.00	60.00
	4063	CG	ARG		876		28.796		110.592	1.00	61.19
	4064	CD	ARG		876		29.309		110.037		67.05
	4065	NE	ARG		876		30.770		110.044		.76.99
	4066	CZ	ARĢ	-			31.568	11.708	111.116		79.95
	4067	NH1	ARG				32.887		110.939		81.01
	4068		ARG			,	31.067		112.335		79.88
	4069	C	ARG			•	26.149		108.667		61.31
	4070	0.	ARG	В	876		25.336		109.576		63.40
	4071	N	ALA	В	<u>8</u> 77		25.990		107.728		61.95
	4072	CA	ALA	В	<u>8</u> 77		24.782.		107.724		60.39
	4073	CB	ALA	В	877		25.142		108.099		61.56
	4074	С	ALA				24.104		106.334		60.30
	4075	O.	ALA	В	877.		24.050	17.450	105.548	1.00	59.22
	4076	N			878	-	23.522		106.110	1.00	60.43
		CA	PRO	В	878		23.006	14.995	•		60.78
	4078	CB	PRO				22.159	13.749		1.00	60.53
	4079	CG			878		22.572	13.309	106.396	1.00	
	4080	CD	PRO	В	878		23.223	14.408	107.159	1.00	61.36

	A	В	C	D	E		F		Ģ		Н	I	J
	4081	С	PRO	В	878		22.093	16	.025	104.	243	1.00	60.68
	4082	O -	PRO		878		21.843			103.			60.12
	4083	N	ASP	•	879		21.492		.871				59.38
:	4084	CA	ASP	В	879		20.644	17	.925	104.	532	1.00	59.16
	4085	CB ·	ASP	В	879		19.959			105.	618		59.04
	4086	CG	ASP	В	879		18.427	18	.579	105.	571	1.00	66.19
	4087	OD1	ASP	В	879		17.726	19	.586	105.	290	1.00	72.48
	4088	OD2	ASP	В	879		17.829	1,7	.463	105.	707	1.00	71.81
	4089	C	ASP	В	879		21.462	18	.826	103.	603	1.00	57.43
	4090	0	ASP	$\mathbf{B}_{\mathbf{a}}$	879		20.981	19	301	102.	590	1.00	57.64
	4091	N .	SER	В	880		22.716	19	032	103.	975	1.00	56.33
	4092	CA	SER		8.80		23.644		.836	103.		1.00	54.79
	4093	CB	SER	В	880		24.929	19	.797	104.	005	1.00	55.24
	4094	OG '	SER				25.622		.605	103.		1.00	55.50
		C	SER		880		23.879			101.		1.00	54.99
		0	SER	В	880	. •	24.507	19	.979	101.	077	1.00	53.72
	4097	N	LEU		881		23.348		.113	101.		1.00	55.55
	4098	CA	LEU				23.478		.516	100.			56.64
	4099	CB	LEU		881		23.957			100.		1.00	55.16
	4100	CG	ĻĘŲ		881		25.385		.073	100.		1.00	47.41
	4101	CD1			881		25.879		.711				44.25
	4102	CD2	LEU		881		26.234		.645		827		38.61
	4103	С					22.260		.570		338		60.26
		O	LEU				22.311		. 141		189	1.00	61.01
	4105	N	ALA		882		21.141		.068		839		64.54
	4106	CA	ALA		882		19.923		.077		007		66.81
٠	4107	CB	ALA				18.619		.004		875	1.00	66.76
	4108	C	ALA				19.875		.245		028		68.16
	4109		ALA				19.531		.064		866		69.24
	4110	N	ALA				20.126		.446		515		68.60
	4111	CA	ALA		883	÷	20,325		.591		630	1.00	69.28
	4112	CB	ALA				20.372		.901		461	1.00	69.49
	4113	C ·	ALA				21.685		.361		886	1.00	69.14
	4114	0	ALA				21.818		.511		652	1.00	68.44
	4146	PA	ATP				46.712		.440 .328		953		89.49
	4147 4148		ATP ATP		1001		45.850				523	1.00	84.33
	4149		ATP				45.971 46.316		.113		512 993	1.00	78.95 89.69
	4150	PB	ATP				47.730		.566				
•	4151		ATP				48.070		.089		575 230		98.93 99.05
	4152		ATP				48.948		.908		490		95.56
	4153		ATP			٠.	47.340		.025		490		97.61
	4154	PG	ATP				45.810		.614		344		L01.51
	4155		ATP				45.916		.031		685		97.15
	4156		ATP				45.159		.728		746		95.81
	4157		ATP				44.985		.323		475		99.53
	4158	•	ATP				44.345		.779		226		81.43
	4159		ATP				44.056		.806		310		76.05
	4160		ATP				42.586		.122		531		72.65
	4161		ATP				42.294		.396		149		66.71
	4162		АТР				41.362		.132		170		60.60
	4163		ATP				40.769		.740		836		62.85
		- ,			–			_		•	- 5		

A	В	C	D E		F.	G	Н	Ĭ	Ţ
4164	Q2 *	ATP	B1001	e.	40.111	-3.694	85.576	1.00	60.83
4165	C3*	ATP	B1001		42.005	-3.004	86.424	1.00	67.86
4166	Q3*	ATP	B1001		41.724	-1.884	85.612	1.00	68.16
4167	N9	ATP	B1001		42.167	-5.202	88.434	1.00	53.63
4168	C8	ATP	B1001		43.500	-4.813	88.655	1.00	53.17
4169	N7	ATP	B1001		43.833	-5.108	89.970	1.00	50.95
4170	C5	ATP	B1001		42.701	-5.612	90.619	1.00	46.80
4171	Ç6	ATP	B1001		42.436	-6.005	91.949	1.00	44.40
4172	N6	ATP	B1001		43.185	-5.600	93.067	1.00	37.97
4173	C4	ATP	B1001		41.684	- 5.687	89.652	1.00	48.42
4174	Ν3	ATP	B1001		40.432	-6.108	89.965	1.00	44.97
4175	C2	ATP	B1001		40.181	-6.529	91.253	1.00	46.46
4176	N1	ATP	B1001		41.180	-6.522	92.179	1.00	41.31

FIGURE 4

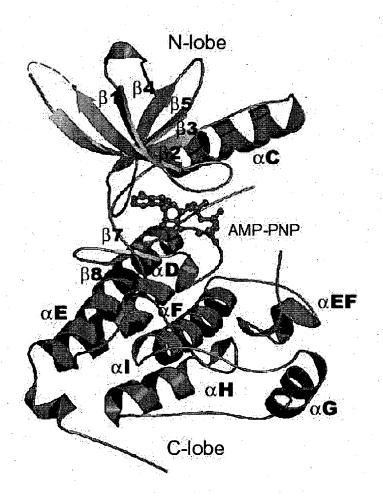


FIGURE 5A

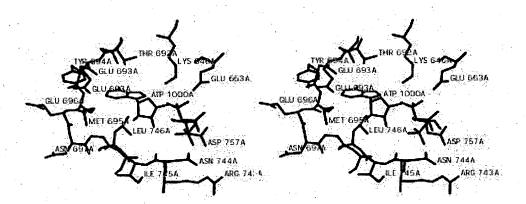


FIGURE 5B

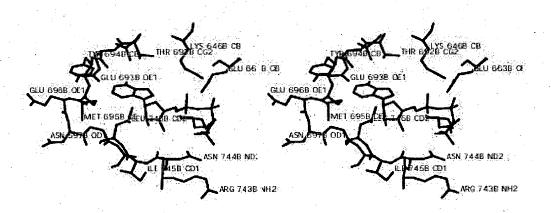


FIGURE 6

